Attention:
Price change per February 1, 2008.
For actual prices, see our Price List or the Internet.

EZ Panel™ ENHANCED

PLC TOUCH PANELS

EZPanel™ ENHANCED

HALT CERTIFIED HASS

The Most SENSIBLE PLC Touch Panels!

8 EXPANDED MODELS

Starting At €399

12 NEW DRIVERS

AB Drivers with String Support

Designed and built in USA by AVG www.avg.net

AND GET THIS...

ENHANCED COSTS LESS!!

EZPanel Enhanced

We named our touch panels EZPanel Enhanced because we added even more features to the original EZTouch panels, designed and built by AVG, the Easiest to configure PLC touch screens in the business. These panels quickly connect to most popular PLCs, and sport ridiculously low prices. Check out our offering and the many features and options that make EZPanel Enhanced panels the best value on the market.

6" White on Blue
512KB

NEW

€399

6" TFT
512KB (1.5 MB max.)

NEW

Starting At €899

8" TFT
512KB (1.5 MB max.)

NEW

Starting At €1299

15" Color TFT/FDA
1MB (2 MB max.)

Starting At €2499

+49 (0) 2161 464470

What Does EZPanel Enhanced Offer?

ENHANCEMENTS YOU HAVE ASKED FOR!

Our Tech Support Group has been supporting the EZTouch product line since its introduction in 2001 and has constantly earned high marks from you.

We asked them to find out from EZTouch customers what they would like to see improved in the panel. These enhancements are a direct result of your feedback.

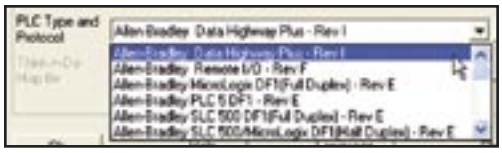
1 Enhanced AB Drivers

NEW

- Support for String & Long File types in AB drivers
- Support for full range of I/O and direct addressing of I/O for DF1 and Micrologix
- Driver for SLC 5/05 over Ethernet (legacy Ethernet I/P)
- Support ControlLogix and Compact Logix Tag names
- Support for binary files (B3:0/0) using shortcut method of B3/0, B3/1, B3/2

AB Driver with String Support

Even more drivers have been added to our already huge list of drivers


PLC Type and Protocol
Allen-Bradley Data Highway Plus - Rev I
Allen-Bradley Remote I/O - Rev F
Allen-Bradley MicroLogix DF1(Full Duplex) - Rev E
Allen-Bradley PLC 5 DF1 - Rev E
Allen-Bradley SLC 500 DF1(Full Duplex) - Rev E
Allen-Bradley SLC 500/MicroLogix DF1(Half Duplex) - Rev E

NEW

Universal Ethernet: DF1 for AB, I/P for ControlLogix, SRTP for GE and ModBus TCP/IP

NEW

NEW

2 New Programming Software Enhancements

- Overlapping of objects
- Free sizing of touch objects
- Pick and Apply styles
- Display of Tag addresses on objects
- Support for Importing Image Formats: JPEG, GIF, ICO
- **New 4,000 Symbol Library**

3 Then we added the following new PLC Drivers:

- Aromat Mewtocol COM
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- Idec Computer Link
- Mitsubishi - CC Link (CC Link protocol)
- Siemens S7-200
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104 (Transparent Byte Protocol or Non-Intelligent Terminal Protocol)
- Uni-Telway - Telemecanique TSX 37 Micro (UNI-TE Version 1.1)

EZPanel™ ENHANCED

HALT CERTIFIED HASS

30 DAY GUARANTEE MONEY BACK

Common Features and Common Programming Language for All Models

€399

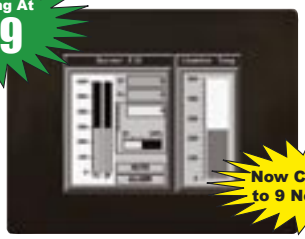
NEW!

6” Slim Bezel
White on Blue

€419

6” Monochrome

Starting At
€419



Now Connects to 9 Networks

6” Slim Bezel
Monochrome

Starting At
€699

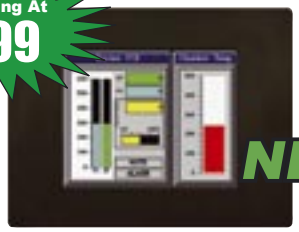
6” STN Color

Starting At
€699

Now Connects to 9 Networks

6” Slim Bezel
STN Color

Starting At
€899



NEW!

6” Slim Bezel
TFT Color

Starting At
€949

Now Connects to 9 Networks

8” Slim Bezel
STN Color

Starting At
€1299

NEW!

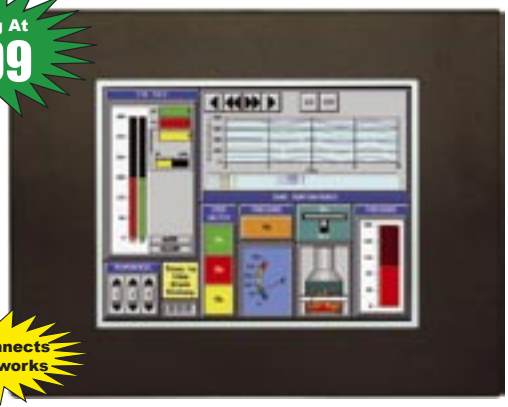
8” Slim Bezel
TFT Color

Starting At
€1649

Now Connects to 9 Networks

10” Slim Bezel
TFT Color

Starting At
€2499



Now Connects to 9 Networks

15” Slim Bezel
TFT Color

SENSIBLE Hardware Common To All Models

Most Touch Panel manufacturers offer high end features such as Trend Graphs, etc. only in their high end (10” and above) models. NOT US! Our feature set as well as programming language is common to all models from 6” White on Blue to 15” TFT.

EZiest to use programming software as proclaimed by over 10,000 customers

NO COURSE EZ SOFTWARE REQUIRED

NEW ENHANCEMENT Ethernet Communications to PLC

AB's DF1, AB's I/P, GE SRTP, Modbus TCP/IP

This is a great new enhancement for the EZPanel product line. Until now, the Original EZTouch was limited to Ethernet communications with only Modbus TCP/IP and AB's IP protocols. Now the EZPanel Enhanced is available with Ethernet that supports AB's DF1 protocol, an enhanced AB's IP protocol to communicate to ControlLogix, Modbus TCP/IP and GE's SRTP protocol, not available on most panels.

AB's I/P over Ethernet ENHANCED

AB's Ethernet I/P is getting increasingly popular with the use of ControlLogix platforms. The current EZP-FSE models do not allow communication to SLC505 because it is limited to Ethernet IP IO protocol. The EZPanel Enhanced no longer has that limitation. In addition, the cost savings are great!

ONLY €399 ADDER FOR ETHERNET I/P AND SRTP

The Original EZTouch

EZ-T10C-FSE

10 inch EZTouch with the old Ethernet I/P for AB

VS

EZPanel™ ENHANCED

EZP-T10C-FSU

10 inch EZPanel with Enhanced Ethernet I/P for AB with Support for Tag Names

SAVING $900

NEW **AB's DF1 over Ethernet**

As many small to medium sized PLCs from AB prefer to communicate over Ethernet using DF1 protocol, we have introduced this new option for only €399.

NEW **GE SRTP over Ethernet**

As the use of industrial Ethernet is increasing in most plants, GE is also promoting the use of Ethernet with SRTP protocol. As of the printing of this catalog, EZPanel Enhanced is one of the few panels that can communicate with the SRTP protocol.

EZPanel Programming Software Enhancements

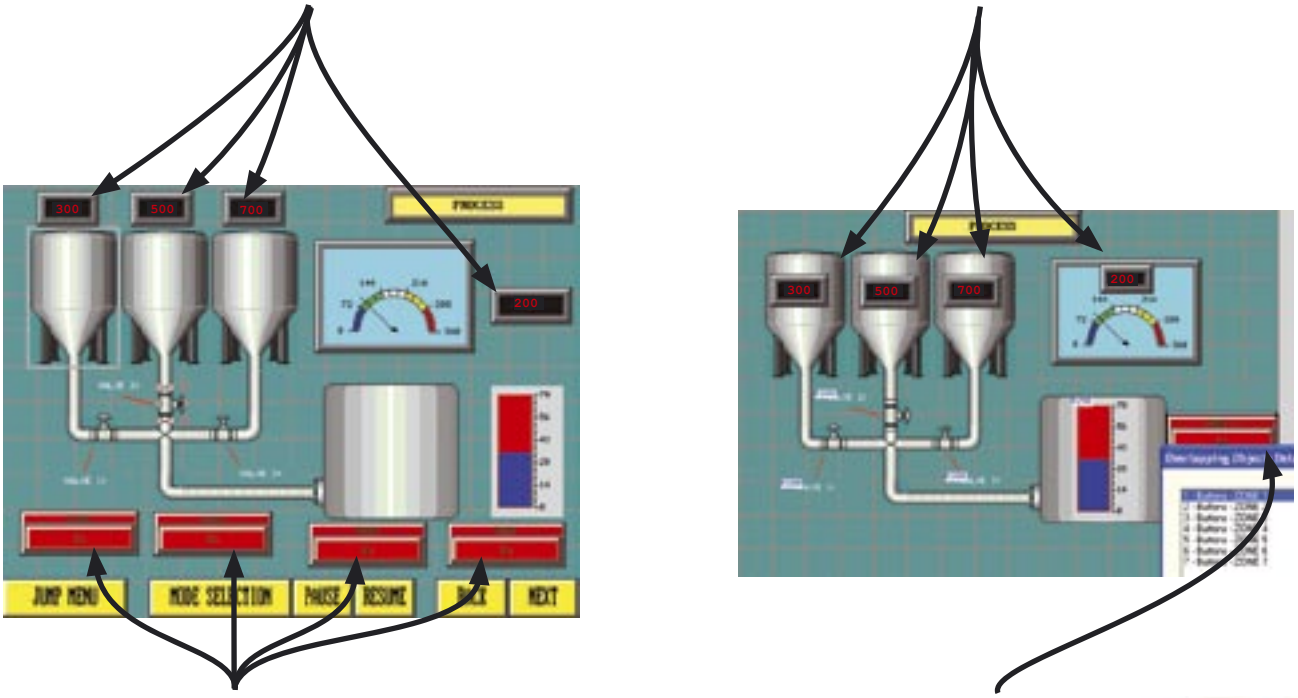
".. new convenience features.. "

EZPanel Enhanced Editor is an upgraded Programming Software that is also compatible with the original EZTouch. This enhanced Editor supports all the new PLC drivers as well as new convenience features requested by our customers over the last four years.

Overlapping of Objects

Many times, an operator will want a great deal of information available on one screen at any given time. Getting all this information to fit, however, can be quite a task. Allowing objects to overlap is just one more way you can save a great deal of screen real estate. In our example below,

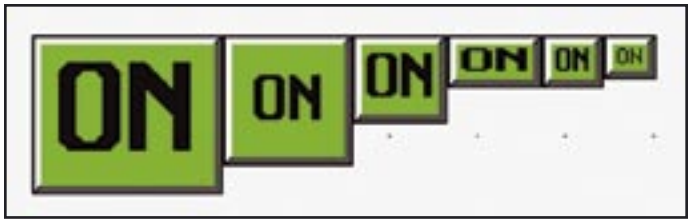
Now you can overlap objects, for example a numberic indicator, on top of other objects such as dynamic bit maps or meters!



Recipe buttons can be overlapped to change up to 40 operations at a time.

Free Sizing of Touch Objects

EZPanel's Enhanced Editor allows the free sizing of all objects without snapping to the grid or the actual object itself snapping to certain dimensional sizes. You can finally make all objects as large or as small as you want them to be.



EZPanel Programming Software Enhancements

Display of Tag Addresses on Objects

The PLC addressing uses Tag names, so that you can associate meaningful, easy-to remember names to the addresses. Additionally, tags are useful if you use different PLCs with the same HMI program. You will only need to design the HMI program once! Then just change the tag definitions to match the PLC you have to use - a wonderful time saving feature!

The enhanced ability to display tag addresses on the objects allows EZier screen development and troubleshooting. Here we are showing the tag address for block transfer on AB's Remote I/O.

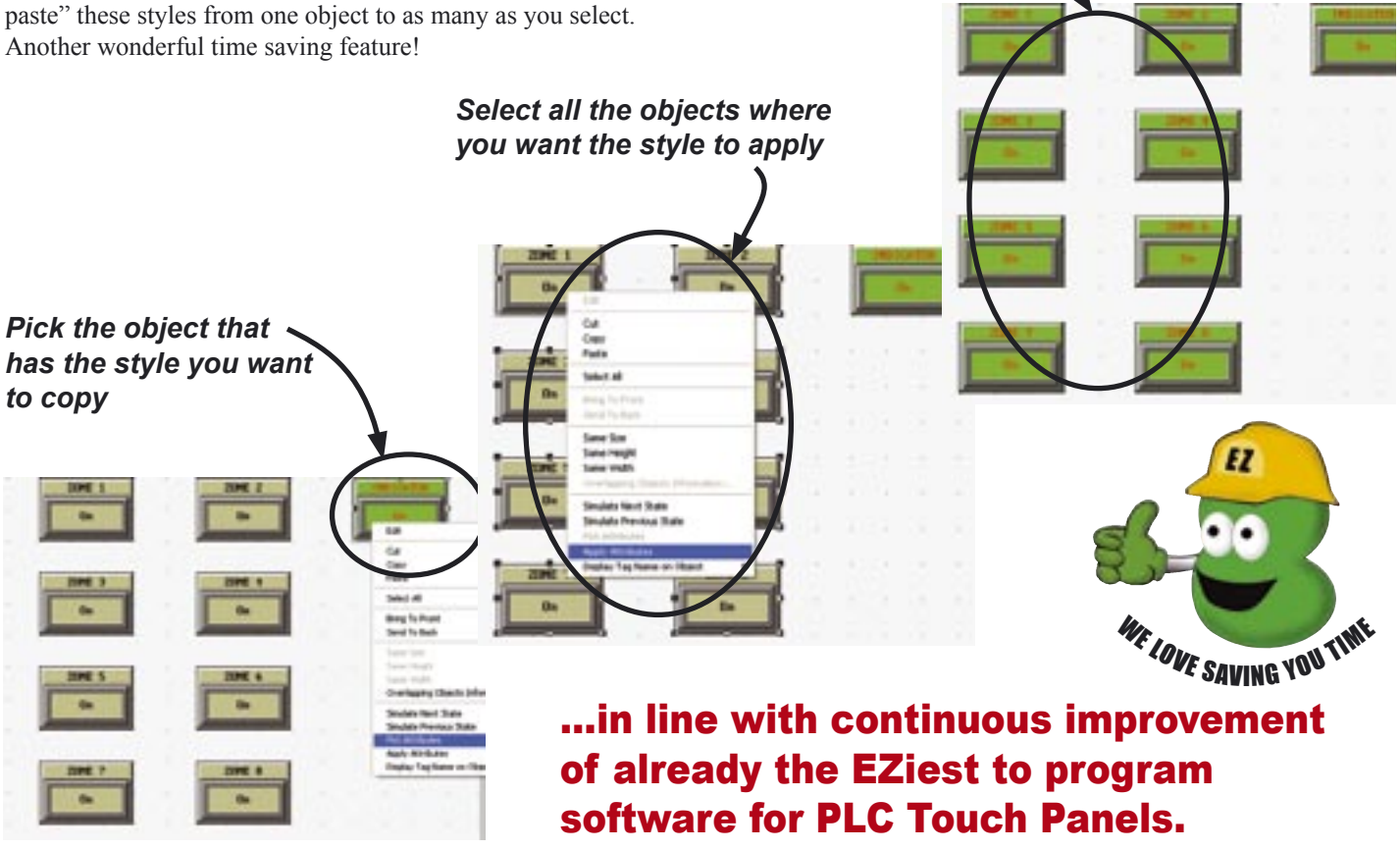
Pick and Apply Styles...

When designing screens, there are many attributes assigned to objects, such as object's colors, object's shapes, text sizes, text colors.. All these details in completing a style for the screen takes a great deal of time. This feature allows the ability to "copy and paste" these styles from one object to as many as you select. Another wonderful time saving feature!

The object's style that was picked has now been applied to the other objects

Select all the objects where you want the style to apply

Pick the object that has the style you want to copy



...in line with continuous improvement of already the EZiest to program software for PLC Touch Panels.

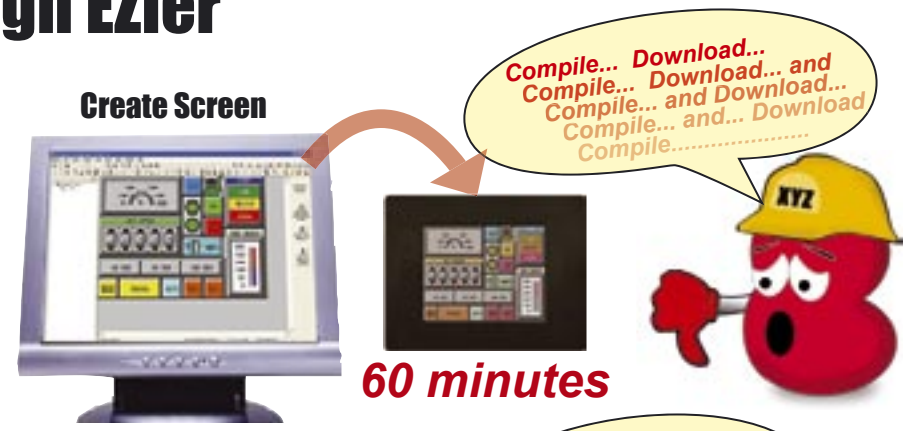
Unique On-Line Programming Makes Screen Design EZier

Patent Pending

THEIRS

1. Create Screen - 20 minutes
2. Compile and Download to Panel, minimum 5 minutes
3. Check it out on the Panel
4. Change colors, fonts, object sizes an average of 4 times, 5 minutes each

Time to develop and finalize one screen - 60 minutes



OURS

1. Create a couple of objects
2. Click Save (also transfers to panel instantaneously) to see how they look on Panel
3. Add more objects, click save again

NO COMPILATION OR DOWNLOADS!

Time to develop and finalize one screen - 10 minutes

It's like developing screens right on your panel

You know the power of On-Line programming if you deal with machine/process start-up

During machine start-up, you can simply plug your computer into Panel's Programming Port and:

1) Create a Troubleshoot screen
2) Create a troubleshoot button on main screen.
3) Disable critical outputs
4) Monitor registers and/or specific bits in your ladder logic... ***without ever having to shut down the machine!***

1 Connect Computer to Panel

2 Create a temporary Troubleshoot Screen in "Edit On-Line" Mode

3 Troubleshoot without ever having to shut down the machine

Eliminates the need to go through hundreds of ladder rungs to troubleshoot the logic

It's like having a FREE On-Line Debug Tool

Unique On-Line Programming

Designed and built in USA by AVG www.avg.net

Exclusive to AVG Panels

You wouldn't buy a PLC today if it didn't have On-Line Edit...

...So why should you have to buy a Touch Panel without On-Line Programming?

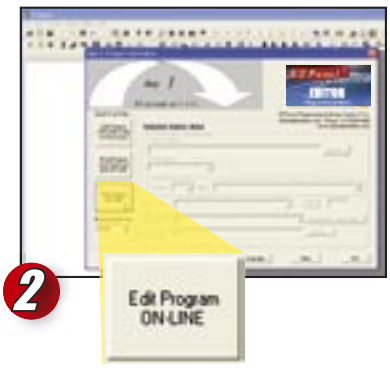
Only the original EZTouch and the EZPanel Enhanced have On-Line Programming

Online Programming	*EZAutomation EZPanel Enh'd Series*	*Allen-Bradley PanelView Series*	*GE Quickpanel Series*	*Xycom/Proface Panelstation & GP Series*	*Siemens Simatic Series*	*Maple and other Chinese Imports*
	YES	NO	NO	NO	NO	NO

HERE IS A TRUE STORY...

1. After a machine upgrade including a new PLC and Operator Interface, our System Integrator asked the Machine Operator what he would like to see better yet. The Operator said the new "computer" was great with all the colors but he missed the old pressure gauge.

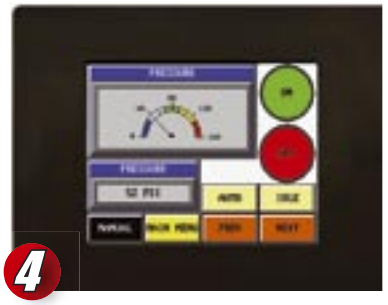
2. Our System Integrator immediately pulled out his notebook computer, hooked it up to the Touch panel, launched his programming software and put it in On-Line mode.



3. And then, right in front of the operator's eyes, moved the other objects on the screen and put an Analog Meter exactly to the operator's color taste, without ever having to shut down the machine.

4. All this took less than 2 minutes.

Operator: "Now that is nice!" Let's get these on all the machines."



EZ Software Upgrade Program

FREE for Existing EZTouch Customers with the purchase of an EZPanel

Your existing EZTouch programming software can also program the new EZPanel Enhanced

NO COURSE EZ SOFTWARE REQUIRED

Simple EZ Upgrade

In line with our philosophy of making it EZ for our customers to do business with us, we offer a simple, no hassle program to upgrade your existing EZTouch Programming Software.

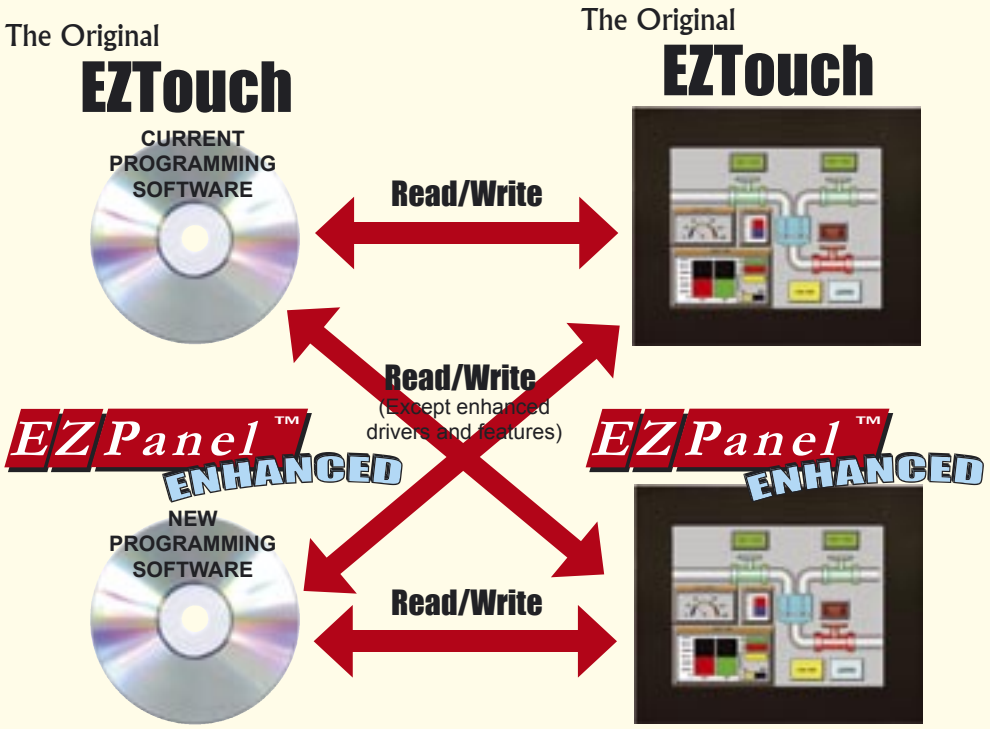
We don't want you to have to pay for the EZPanel Enhanced Editor if you already have invested in EZTouch Programming Software.

We will ship to you our brand new EZPanel Enhanced Editor FREE with the purchase of any model of EZPanel Enhanced.

Backward Compatible

EZPanel Enhanced Editor in fully backward compatible with your existing EZTouch panels.

Programming Software Compatibility



Note: Please note that the EZPanel Enhanced Editor (FREE to existing EZTouch customers) will not support the new drivers as well as will not support the enhanced convenience features when programming the original EZTouch panels.

EZPanel Enhanced - The Most Practical PLC Touch Panel Just Got EZier On Your Budget

6" White on Blue

We designed a new model with 5.7 inch White on Blue display, to give you the lowest cost panel in the entire industry!

€399

€798 with Ethernet I/P!

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EZP-S6W-RS

Here's what you get for €399

Original Features

- Incredible 3-D graphical objects: pushbuttons, numeric entry, meters, line graphs, PID faceplates, etc. All are high-speed, vector-based objects with amazing scalability.
- Display text in up to nine different languages (user-selected by a push of a button!)
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (eight user-defined levels)
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC:20 values into 20 registers (fixed or variable)
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Forty-character tagnames mapped to PLC addresses
- Bitmaps can be sized on the screen in the Programming Software
- Import/export tags to/from Excel or CSV files - Export messages to Excel or CSV file
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- User-selectable 3-D frames
- Password protected Alarms

Enhanced Programming

- Allows overlapping of the objects
- Allows free-sizing of touch objects
- Convenience features, such as pick and apply styles and display of address on objects
- Support for importing jpeg, gif, ico images
- New 4,000 Symbol Library

Drivers Supported

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1200, 1500, SLC500, 5/01, /02, /03
- Allen-Bradley Ethernet I/P for ControlLogix
- Allen-Bradley DF1 over Ethernet
- Aromat Mewtocol COM
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- GE SRTP over Ethernet
- Idec Computer Link
- Omron Host Link (C200 and C500)
- All Mitsubishi FX Series
- Modbus TCP/IP Ethernet
- Modicon MODBUS RTU
- Siemens S7 MPI Adapter series PLCs
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104
- All AutomationDirect DirectLOGICPLCs

Enhancement for AB Drivers

- Support for ST & Long File types in AB Drivers
- Support for full range of I/O and direct addressing of I/O for DF1 and MicroLogix
- Driver for SLC 5/05 over Ethernet (legacy Ethernet I/P)
- Support ControlLogix and Compact Logix Tag Names
- Support for Binary Files (B3:0/0) using shortcut method of B3/0, B3/1, B3/2

€99.00 Configuration Software

The Programming software makes panel configuration and testing simple. Easy-to-use Windows-based menus and toolbars lead you through building a project. Run-time (online) editing makes debugging fast.

FREE SOFTWARE **TO EXISTING EZTOUCH CUSTOMERS!!**

Being a loyal AVG customer has it's advantages! Get EZPanel Enhanced Editor with all the latest drivers and enhancements ***ABSOLUTELY FREE*** with the purchase of a new EZPanel.

Note: EZP-S6W-RS is just like EZP-S6M-RS

- Comes with 256K of non-expandable RAM
- Can be used only with serial communication drivers
- No flash card supported

The Most SENSIBLE PLC Touch Panels Available!

Starting at €399

HALT CERTIFIED HASS

The EZPanel Enhanced line with all the additional features, has the same EZ to use programming software across all panels, all eight models. A wide variety of serial drivers is available and we continue to add more every quarter. We also have a broad range of units with pre-installed modules to connect to the most popular field networks, legacy as well as the latest.

Expanded wide variety of models, sizes and PLC drivers

Check out all the different EZPanel models and specifications available to you starting on page 3-34.

Drivers Supported

- Allen-Bradley DF1 Half and Full Duplex (PLC-5, SLC 500, MicroLogix 1000, 1200 and 1500)
- DH485/AIC/AIC+ for MicroLogix 1000, 1200, 1500, SLC500, 5/01, /02, /03
- Aromat Mewtocol COM
- Control Techniques - Unidrive 2-wire, 4-wire (binary)
- Control Technology Corp. (CTC) - CTC2600, 2700 and 5100 (CTC Binary)
- EZPLC
- GE Fanuc SNPX (90/30, 90/70)
- Idec Computer Link
- Omron Host Link (C200 and C500)
- All Mitsubishi FX Series
- Modicon MODBUS RTU
- Siemens S7 MPI Adapter series PLCs
- Square D Symax - 300 Series CPU, 400 Series CPU (Symax)
- Texas Instruments - TI5x5 Series, TI505, TI545-1102, TI545-1104
- All AutomationDirect DirectLOGICPLCs

Connect to One of these Networks*

- Allen-Bradley Data Highway Plus or Remote I/O
- Ethernet/IP
- Ethernet DF1 Protocol
- DeviceNet
- Profibus DP
- MODBUS Plus
- MODBUS TCP/IP
- CCLink
- GE SRTP

NO COURSE EZ SOFTWARE REQUIRED

** Not available on Reduced Memory "R" models*

Easy to Program, Easy to Operate

You can create a basic screen in about 10 minutes.

We know you have better things to do than attend a class on how to configure a touch panel! EZPanel is so intuitive that in a few minutes you should be able to create great screens on your own.

EZPanel programming software lets you:

- Click, drop and edit objects on the screen
- Copy and paste screens from and to other projects
- Scale objects to virtually any size with little or no distortion
- Enter data with a pop-up keypad
- Configure panels for up to nine languages
- Use the included Symbol Factory library of over 4,000 factory objects, or import 128-color bitmaps

Download Free software demo to see for yourself: www.EZAutomation.eu.com

EZPanel Programming Software €99

Designed from the Ground Up to be SENSIBLE

After seeing all the features, especially the new enhanced features, we think you'll agree that these products are the most sensible touch panels available!

Key Features

- Incredible 3-D graphical objects: pushbuttons, numeric entry, meters, line graphs, PID faceplates, etc. All are high-speed, vector-based objects with amazing scalability.
- 128 colors for use in objects and graphics
- Display text in up to nine different languages (user-selected by a push of a button!)
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (eight user-defined levels)
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC:20 values into 20 registers (fixed or variable)
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Forty-character tagnames mapped to PLC addresses
- Optional 512 K, 1 MB, and 2 MB flash memory cartridge for non-volatile program storage and distribution
- Expandable RAM memory cartridge for up to a total of 1 MB
- Bitmaps can now be sized on the screen in the EZPanel Software
- Import/export tags to/from Excel or CSV files - Export messages to Excel or CSV file
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs

Enhanced Programming Features

- Allows overlapping of the objects
- Allows free-sizing of touch objects
- Convenience features, such as pick and apply styles and display of address on objects
- Support for jpeg, gif, ico images
- New 4,000 Symbol Library

AB Driver Enhancements

- Support for ST & Long File types in AB drivers
- Support for full range of I/O and direct addressing of I/O for DF1 and Micrologix
- Driver for SLC 5/05 over Ethernet (legacy Ethernet I/P)
- Support ControlLogix and Compact Logix Tag names
- Support for binary files (B3:0/0) using shortcut method of B3/0, B3/1, B3/2

Options

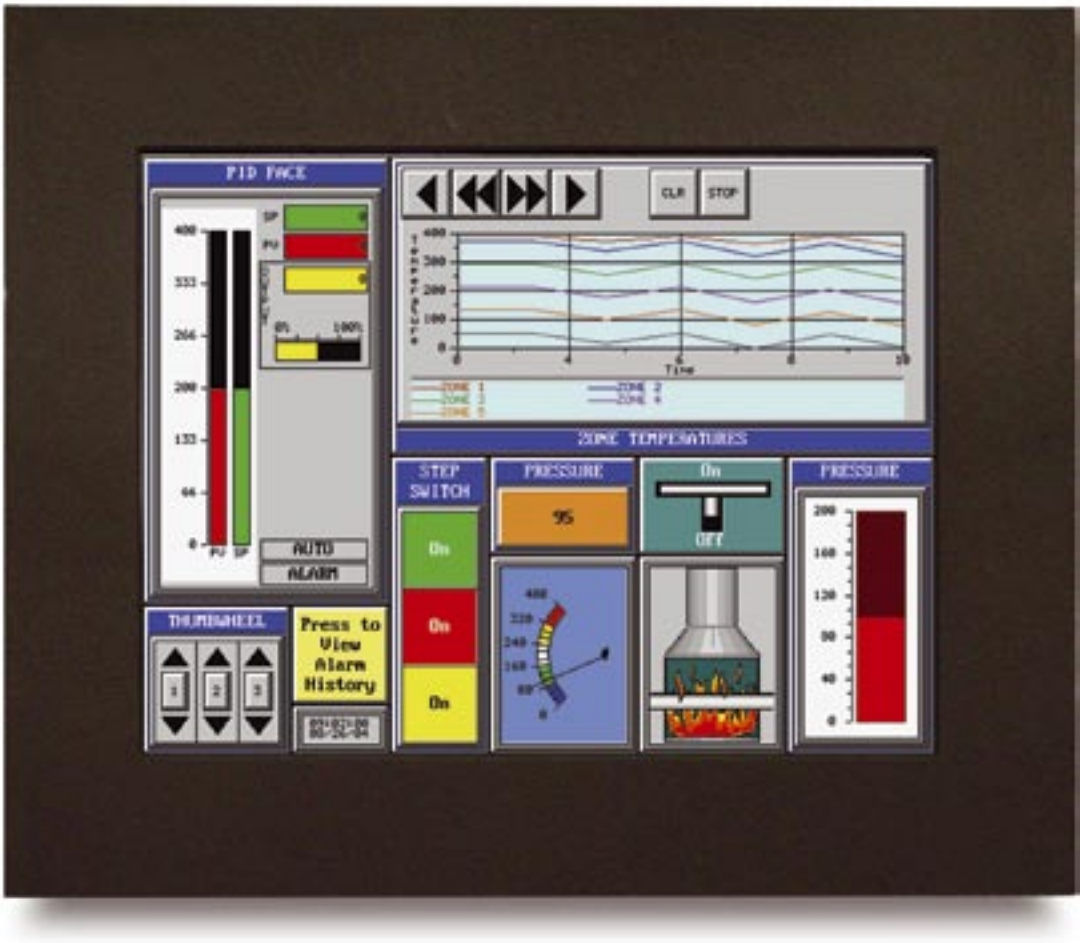
- High speed Ethernet communication module
- Non-Volatile Flash memory cartridges are available in 512K, 1 MB, or 2 MB capacity. These Flash cartridges (starting at €46 for 512K) are great for transporting programs.

Universal Ethernet Port for PLC Networks

Select from:

- **DF1 over Ethernet**
- **SRTP over Ethernet**
- **Modbus TCP/IP over Ethernet**
- **AB's IP Protocol over Ethernet**

EZPanel Enhanced PLCs are EZ to Operate

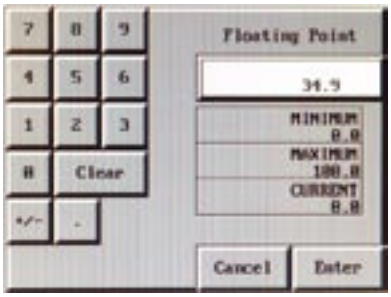


POP-UP Electronic Thumbwheel emulates a mechanical thumbwheel switch.

A pop-up thumbwheel operates just as a mechanical thumbwheel would, in that the operator can “scroll” each digit up and down.

Simply hit “ENT” or “Enter” on all pop-ups to download your entry to the PLC.

POP-UP Keypad allows you to enter data into a pre-defined PLC register.



The numeric entry object allows you to write a value to a PLC register. Using range check options you can pre-define the minimum and maximum set points. The keypad also automatically changes data types to what is appropriate, such as floating points, octal, hexadecimal or signed/ unsigned decimal.

Eight levels of password security for every input object.

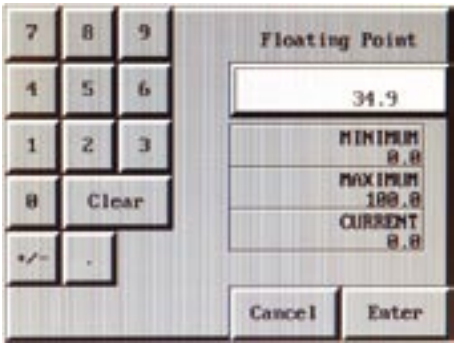
All data input objects have password security. A user can define up to eight password labels of security. In addition, variable passwords can be defined from registers in the PLC.

Just a few reasons operators love these panels

Our Engineers and Technical support personnel worked closely in designing this product, keeping one thing in mind... that this touch panel has to be the most user friendly for machine operators. Here are some highlighted features:

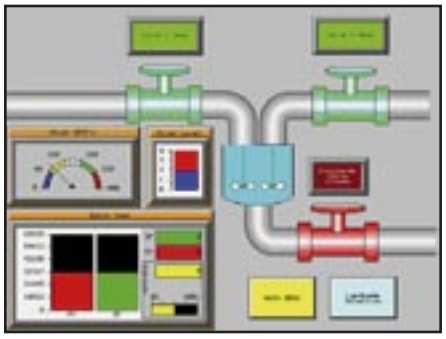
1 Operators Can Choose their Favorite Language

The United States has one of the most culturally diverse population of all countries and that means operators have a need for multiple languages. We were among the first to identify this need which resulted in multiple language support in our EZPanel Enhanced editor. You can configure each and every object (except PID face plate) for up to nine different languages (ASCII characters) each. While configuring our panel, a "language button" can be created to let the operators select their favorite language. For example, one operator can change the whole screen to Spanish by pressing a "Spanish" button. The next operator can change the whole screen to English by pressing an "English" Button. And so on...



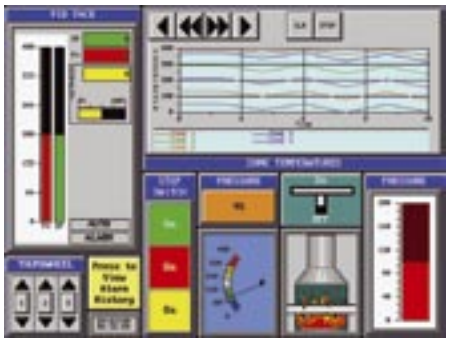
2 It's EZier than ever for operators to input data!

EZPanel Enhanced allows pop-up keypads for users to enter data in any of its supported formats (Signed and Un-Signed Decimal, Floating Point, Hexadecimal, and Octal). When creating pop-up type inputs for the above type formats, it automatically selects the right type based on the PLC/internal tag chosen. Ever needed a thumbwheel type input? We've added that as well, which allows the operator to scroll up/down each digit (max of five digits). All the data input type objects (including pop-up and thumbwheel) can be protected with up to eight levels of password protection. These passwords can be pre-programmed in our editor or they could be pointers to registers in a PLC. Having the passwords pointing to PLC registers allows for different passwords for multiple shifts and overrides by supervisors.



3 Scale objects to any size with no distortion

Our Editor uses vector-based graphics for objects. Unlike other editors that use graphic symbols, which distort when scaled, objects created by EZPanel Enhanced editor retain their shape with no or very little distortion. Another advantage to using vector based graphics is the super fast response time as our objects utilize very little memory. Any object in our editor is configurable up to 128 colors and allows importing of bitmaps as well with 128 colors.



4 The most sensible objects hard to find in other brands

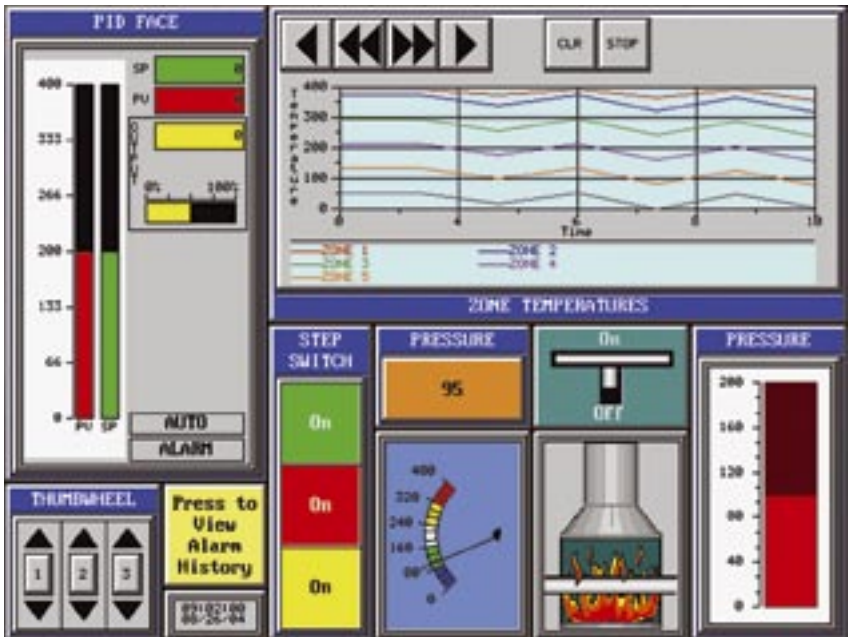
EZPanel Enhanced offers a graphical trending feature (great for time change over), PID face plates (single loop PID controller face plates), Downloadable Recipe (you can download up to 20 values, predefined or pointing to variable registers, to a PLC with just a single push button), thumbwheel, analog and digital clocks, radio buttons, step switches, many forms of meters, and many more along with our 4000 objects from SymbolFactory™.

Program this Screen in less than 10 minutes

EZ as 1-2-3

EZPanel has earned it's name!

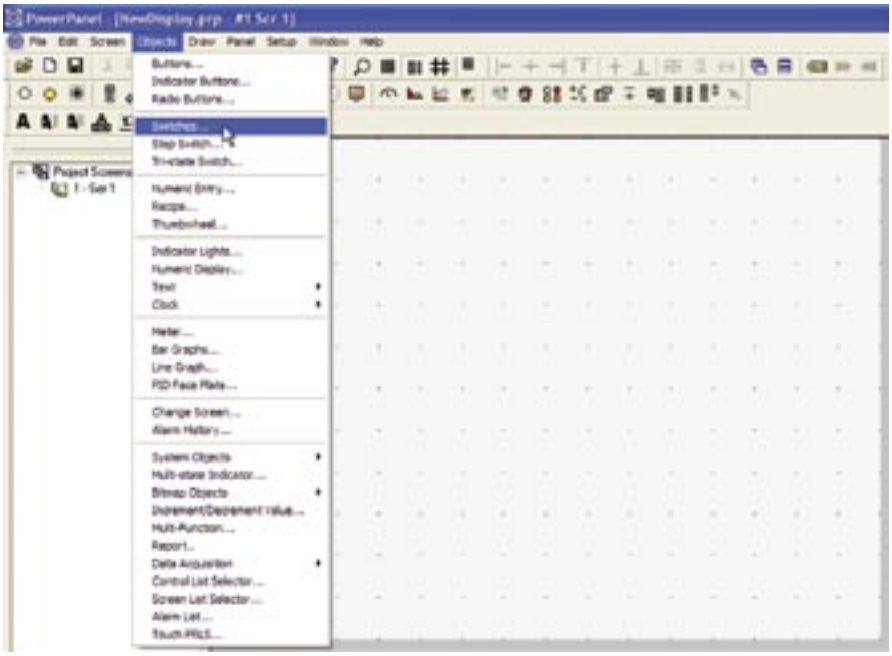
We named it EZPanel for a reason. We made an easy to use, simple operator interface that will save you a lot of engineering hours and design time due to its simplicity and ease of use. You don't need prior programming knowledge to design a screen. You do not need to attend any classes to learn how to program the EZPanel. It is Intuitive, it is Simple!



The only assumptions are:

- You are familiar with Windows-based environments
- You have a good understanding of your PLC memory's address formats

The following example shows just how EZ it is to create an object:



1 Select an Object

A) Click on "Objects" on the main menu bar

B) Select the object you wish to create. In this example, click on "Switches".

You may also select an object from the tool bar below the main menu.

Tool Bar

Or select switch object from the tool bar

2 Fill in the Dialog Box

A) Click the style of switch you wish to use.

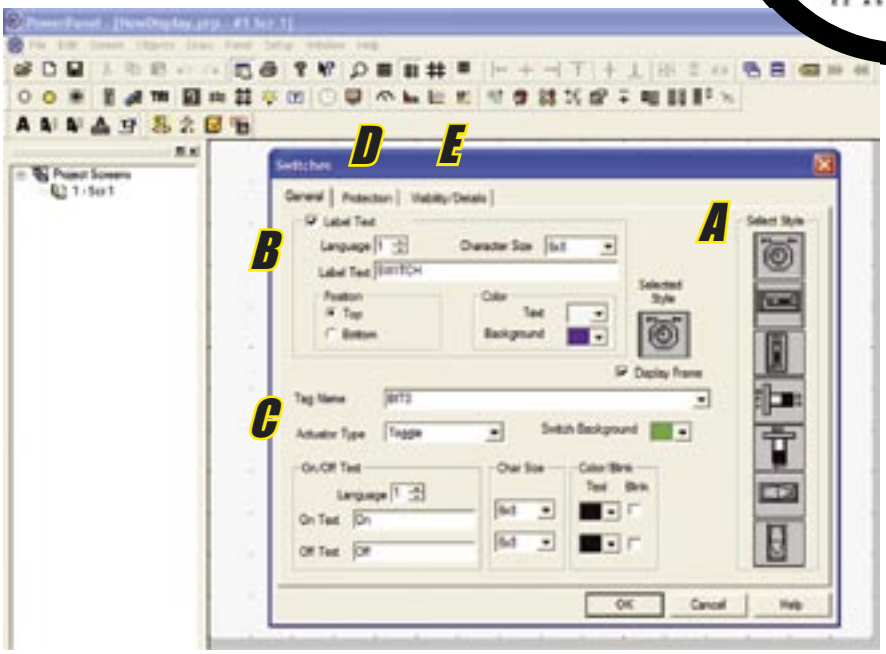
B) Select “Label Text”. This will allow you to name and customize the object.

C) Select or create a PLC bit address tag that the “Switch” will activate.

D) If you need password protection, click on the “Protection” tab at the top of the dialog box.

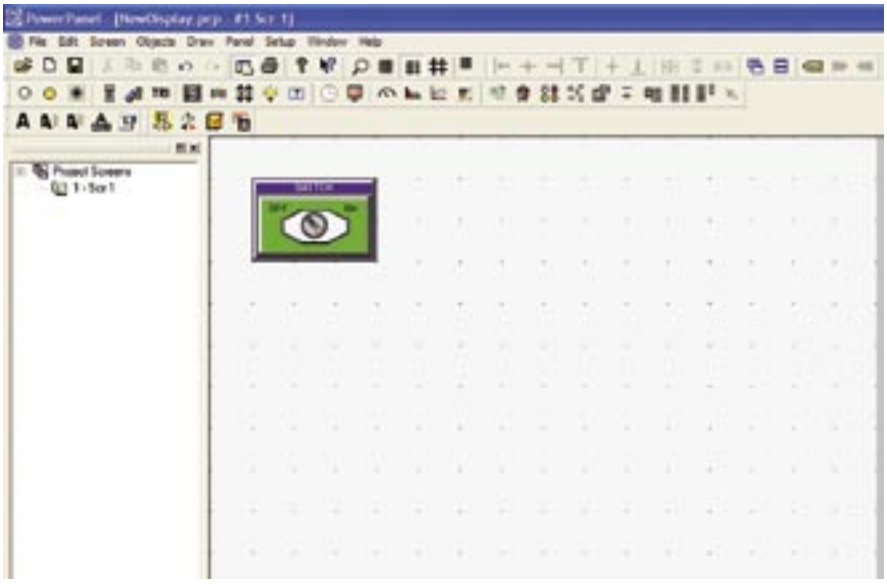
E) If you wish to keep this object invisible until a PLC tag is triggered, click on “Visibility/Details”.

Visibility will be discussed later in detail.



3 Placing the Object

Click your mouse on the screen and stretch the object to your desired size. If you want to edit the object again, simply double click on it and the configuration dialog box will reappear. There is even a “Simulate” button on the dialog box for some objects so you can see how objects will work in real time.



PERFORM THE PREVIOUS STEPS FOR DIFFERENT OBJECTS AND YOU HAVE DESIGNED YOUR SCREEN!

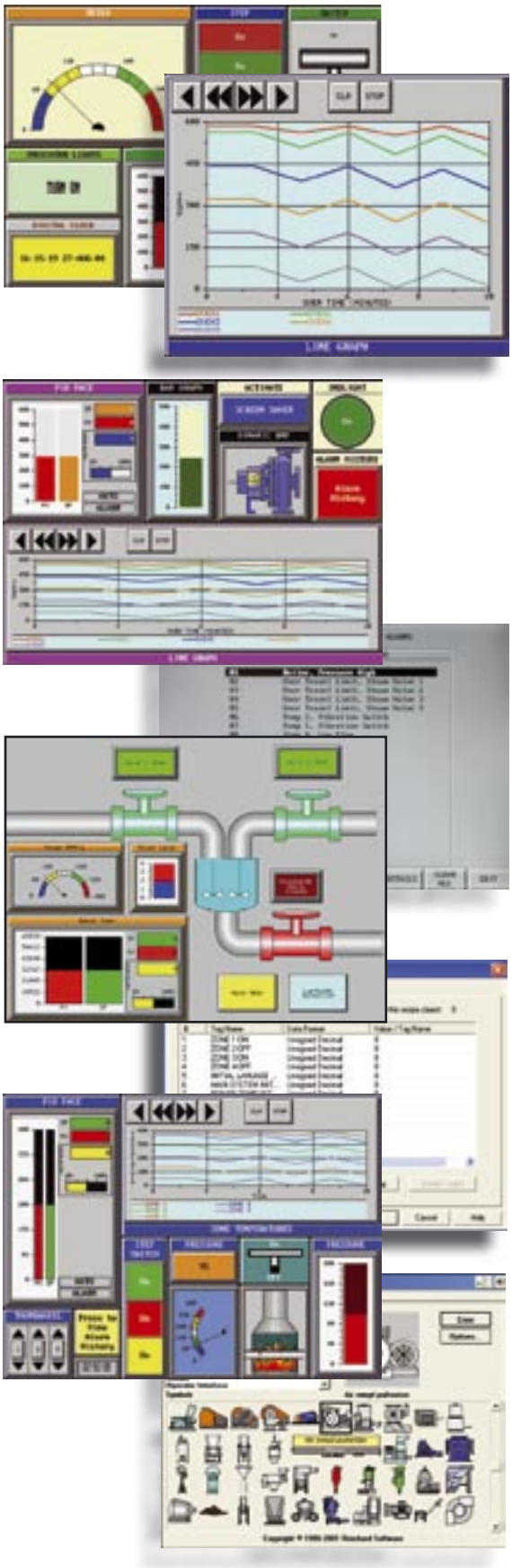
Designed from Ground up to Simply be the EZiest Software to Program Touch Panels

You do not have to spend $1300 or attend a 3 day course to learn how to program an operator panel!

Allen Bradley recommends attending their course number RS-RSVMETRG for developing skills needed to create and configure their panels even for small machine/process

EZ has widely been recognized as the Easiest to program software in the industry. More than 10,000 companies and over 20,000 Au□
p□
software to be so intuitive that even a first time user can get it up and running in a couple of hours without opening the software manual.

Enhanced Graphics Provide Enhanced Results



EZPanel comes with rich graphical features that can be used to visualize PLC data into useful operator interface information. Here are some examples:

EZ to Understand Trend Graphs

The Line Graph object continuously monitors specific tags in the EZPanel and displays their value as they change over time. Up to 6 tags can be monitored per Line Graph and up to 100 Line Graphs can be programmed. This object actually acts like a VCR and using Arrow keys you could scroll forward or backwards along the graph. Line Graphs store up to 999 data points and can be set to increments of seconds, minutes, hours or even days.

EZ Insightful PID Faceplates

PID Faceplate is an object that reads 3 controlled values of the PID loop and displays them in the form of a bar graph. This graph provides valuable and timely process information that allows the operator to take suitable action at appropriate time.

Multi-State Indicators

Multi-State Indicator object can be used to display preprogrammed messages. This object displays one message at a time based on a bit or a value in the tag. You can program up to 255 messages. There is an option to print a called message which can contain embedded variable data, and display it as an indicator light or message.

Alarm Reporting

EZPanel allows you to have three types of alarm reports. Once an alarm is triggered by the PLC a pre-configured alarm banner would pop-up on the screen and if an alarm is activated an alarm message would be displayed at the bottom of the screen. By pressing Alarm button you can view alarm history, alarm count and specific alarm details.

Recipe Button

The Recipe object allows you to write preset values of up to 20 tags to the PLC to change the process. This feature can be used to download recipes to the PLC.

Symbol Library and 128 Colors

Most of the Touch panels in the market limit 8-16 colors on objects like switches, graphs, buttons, etc. using EZPanel you can apply 128 colors to all the objects. A built in symbol factory with more than 4,000 symbols is available for you to copy and paste directly to a project screen and position them in any way you like. Bitmap objects can also be imported with 128 colors.

Scale Objects to Any Size Without Distortion

Patent Pending

Our Panel uses vector-based graphics for objects. Most other competitive panels use Bitmaps that have to be scaled to right size in other photo editing software (like Photoshop) and then imported to the panel editor. AVG has a unique patent pending process that not only avoids this duplicate work, but also saves large amounts of memory.

Our Communications are Practically Universal

Custom Cables Make Connection EZ

We have custom-designed cables to make it EZ to connect your PLC to our touch panel. These cables connect to most PLCs supported and cost you next to nothing.

Connect Multiple Panels to your PLC

PLCs with multiple communication ports such as EZPLC can have multiple panels connected to it so that multiple operators can communicate to the same PLC on a large machine.

Add Ethernet for Convenience and Faster Access

The touch response time of our panel is extremely fast, typically 0.75 seconds to be precise! The only limited factor is a PLC's serial communication baud rate, which is usually 19.2 to 38.4K. Ethernet communication can be utilized via an optional Ethernet card in the EZPanel to increase communication speed. Also multiple EZPanels can be programmed over an Ethernet network.

Connect EZPanel to a Data Highway Plus Network

Most EZPanel models have an option to connect to your Allen Bradley Data Highway Plus network.

Connect EZPanel to AB's Remote I/O

Most EZPanel models have an option to connect to your Allen Bradley Remote I/O.

Connect EZPanel to a Modbus Plus

Most EZPanel models have an option to connect to your Modicon Modbus Plus network.

Connect EZPanel to a CC Link

Most EZPanel models have an option to connect to your Mitsubishi sponsored CC Link network.

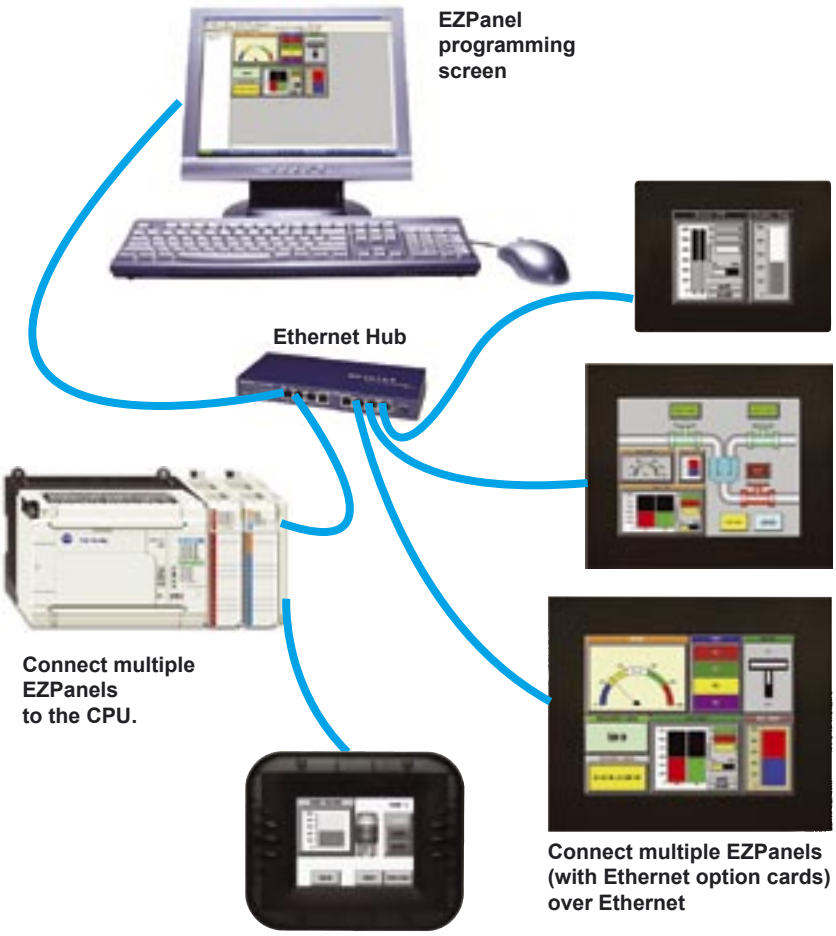
Connect EZPanel to Profibus

Most EZPanel models have an option to connect to your Siemens sponsored Profibus network.

Connect EZPanel to a DeviceNet Network

Most EZPanel models have an option to connect to your DeviceNet network.

Program Over Ethernet Network


EZPanel programming screen
Ethernet Hub
Connect multiple EZPanels to the CPU.
Connect multiple EZPanels (with Ethernet option cards) over Ethernet

Connect EZPanel to a GE Ethernet Network

Most EZPanel models have an option to connect to your GE SRTP Ethernet network.

Connect EZPanel to an AB Ethernet Network

Most EZPanel models have an option to connect to your AB's Ethernet network either DF1 or Ethernet I/P.

Connect EZPanel to a Modbus TCP/IP Ethernet Network

Most EZPanel models have an option to connect to your Modbus TCP/IP Ethernet network.

Judge for yourself which Panel is Best for your PLC?

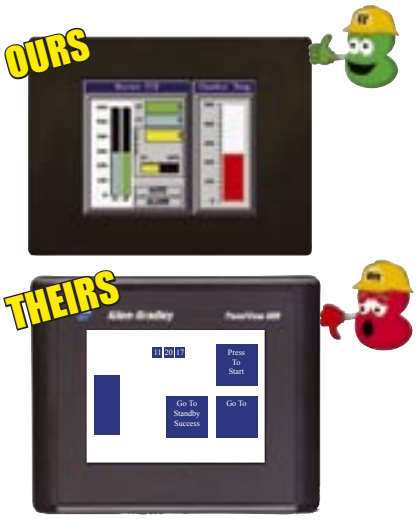
Head to Head Comparison

Feature/Price	*EZAutomation EZPanel EZP-S6C-F*	*Allen-Bradley PanelView 2711-T6C16L1*
Display type	STN	STN
Number of colors	128	16
Number of gray shades	16	4
Standard Memory	512K	240K
Online Programming	Yes	No
Trend graphs	Yes	No
Analog meters	Yes	No
Recipe download object	Yes	Yes
Thumbwheel (numeric entry)	Yes	No
Panel Price	$799	$1,560
Programming software Price	$99	$295
Programming cable Price	$20	$95
Total Price of Panel, Software and Cable	**$918**	**$1,950**

It's Clear which Looks Better!

We wanted to show some basic objects for each of these units to give an indication that the old phrase "You get what you pay for" doesn't always apply! All EZPanel objects have a built-in 3-D appearance, complete with tic marks, labels, and borders. In the following comparison, the screens were created with a simple rule; to create objects by using only a standard single object. (i.e. Can't use other aids to enhance this object.)

Which panel looks better to you?



Let's Compare EZPanel Enhanced to Panelview Plus with DH+

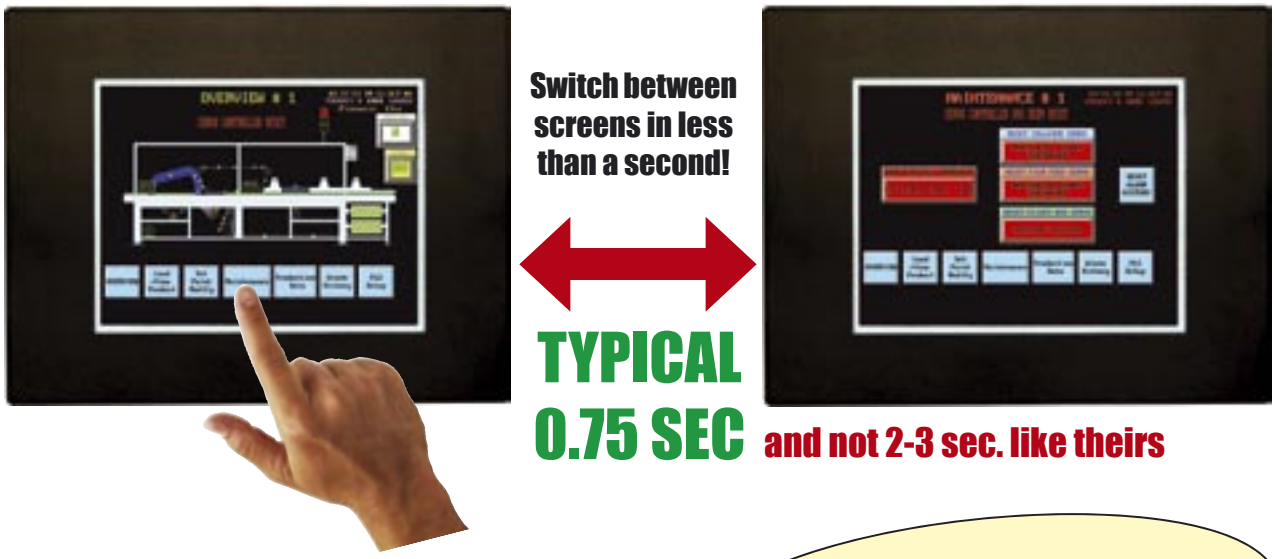
Feature/Price	*EZAutomation EZPanel EZP-T10C-FH*	*Allen-Bradley PanelView Plus 2711P-T10C6D1*
Screen type	10" TFT	10" TFT
Resolution	VGA	VGA
Number of Colors	256	18 bit
Touch cells	192	192
DH+/Remote I/O support	Yes	Yes
Online Programming	Yes	No
Power Consumption	16 watts	27 watts
Software Learning Curve	15 minutes	3 day course
Panel Price	$2,199	$3,630
Programming software Price	$99	$613
Programming cable Price	$20	$100
Total Price of Panel, Software and Cable	**$2,318**	**$4,343**

You don't have to spend days negotiating to even come close to our List Price for a single Unit!

As you can see from the Head to Head comparison, our prices are almost half of the competition and our features are better! Our competition like AB and GE would want you to believe that they can come close to our price if only you committed to huge volumes and went through hours and days of negotiations to accomplish that. We make it EZ, one simple Low price whether you buy one or you buy hundreds!

Compare Our Response Time and Screen Update Time

Patent Pending



Switch between screens in less than a second!

TYPICAL 0.75 SEC and not 2-3 sec. like theirs

Fastest Response to Touch Input

Because of the use of vector based graphics and a proprietary OS, EZPanels are universally recognized as having the fastest response to touch inputs, typically less than 3/4 of a second even with complex screens. This means no waiting and also less wear on a panel from operators pounding an object on a screen waiting for a response.

Unique Visibility Tags - Allows Objects to be Hidden for Maximum Utilization of Screen Real Estate

Patent Pending

All objects have the unique ability to appear and disappear based upon both PLC tags, as well as internal tags. In the following example, we show one of the many ways Visibility Tags can be used to expand your screen.

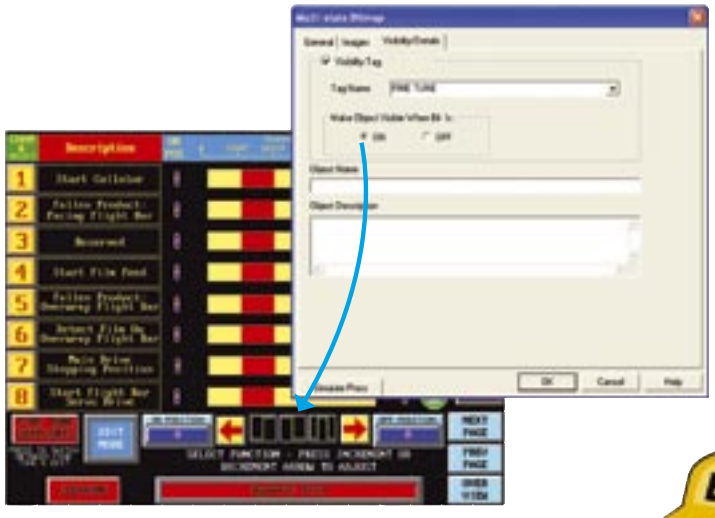
Here is how one of our customers used visibility tags to reduce the number of screens by 30%!

1 Normal Run Mode

Operator does not have access to changing PLS setpoints.

2 Setpoint Edit Mode

PLC "PROG_MOD" Tag makes three additional objects appear on the screen. "ON POSITION", "OFF POSITION" and "Updating Setpoint" objects are programmed with "PROG_MOD" variable as their Visibility tag.



3 Fine Tune Mode

PLC "FINE_TUNE" Tag makes Fine tune objects replace the updating setpoint object. Panels without visibility tags would need screen real estate for both "PROG_MOD" objects and "FINE_TUNE" objects. Visibility tags thus save a tremendous amount of screen real estate. Its not unusual to reduce the number of total screens to half by virtue of this unique feature.

+49 (0) 2161 464470

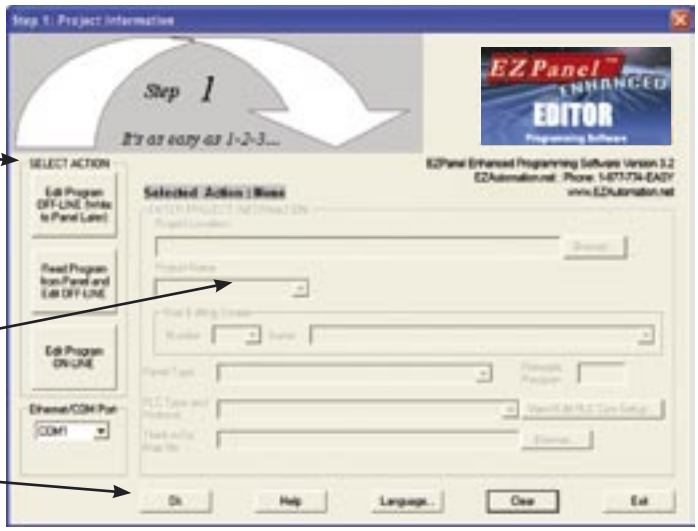
EZPanel Enhanced Editor Programming Example
EZ as 1-2-3

1 The startup screen would provide you with options for creating and opening projects. First, choose the configuration mode: Edit offline, Read from Panel, Edit Online. Then enter your system parameters by typing in the fields or using the pull down menus.

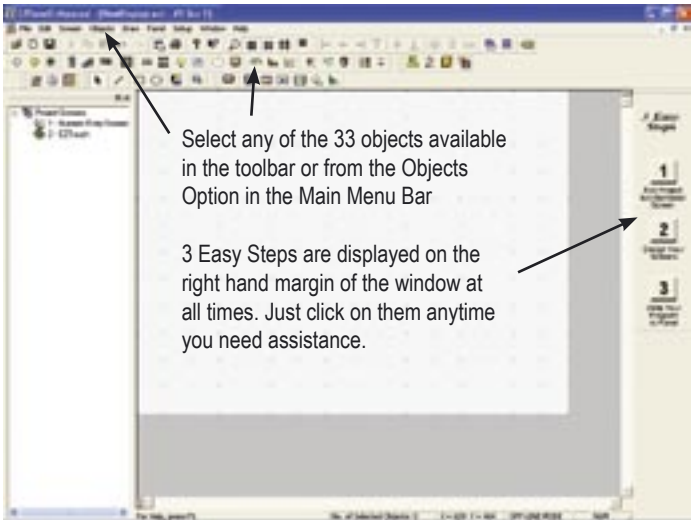
Select the configuration method from our "Online, Read from Panel, and Edit Offline" options.

Enter system information and use the pull-down menu for correct selections.

Click OK when you're done!



2 Once you select your options and your new/previously developed screen is open, you are ready to start creating your project using our easy to find toolbar or menu's.

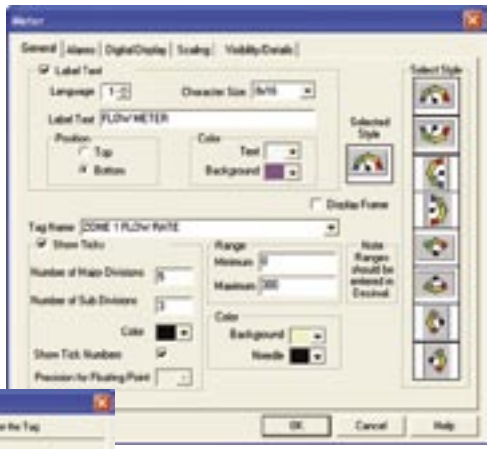


Select any of the 33 objects available in the toolbar or from the Objects Option in the Main Menu Bar

3 Easy Steps are displayed on the right hand margin of the window at all times. Just click on them anytime you need assistance.

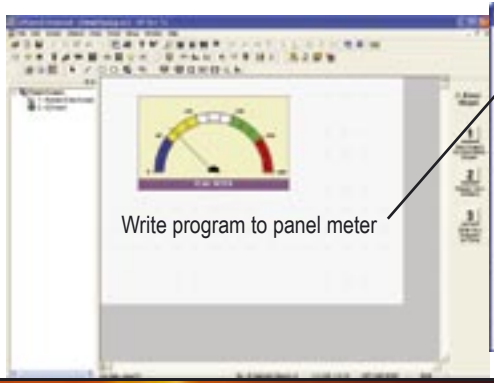
Complete the Dialog box (on the right)

And the PLC assignment (below)

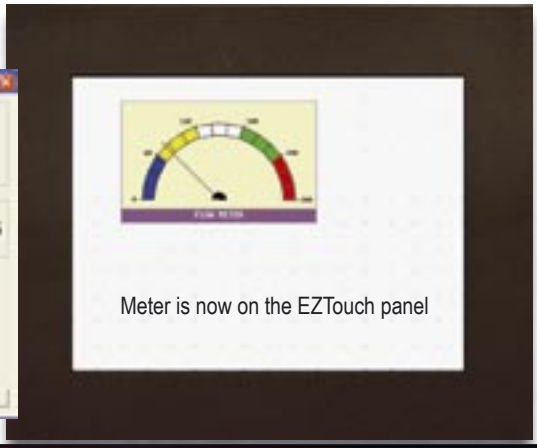


Meter created on the screen

3 Click the "Write Program to Panel" button, click OK, and you're done!
Or just click Save if in Online Mode.



Write program to panel meter

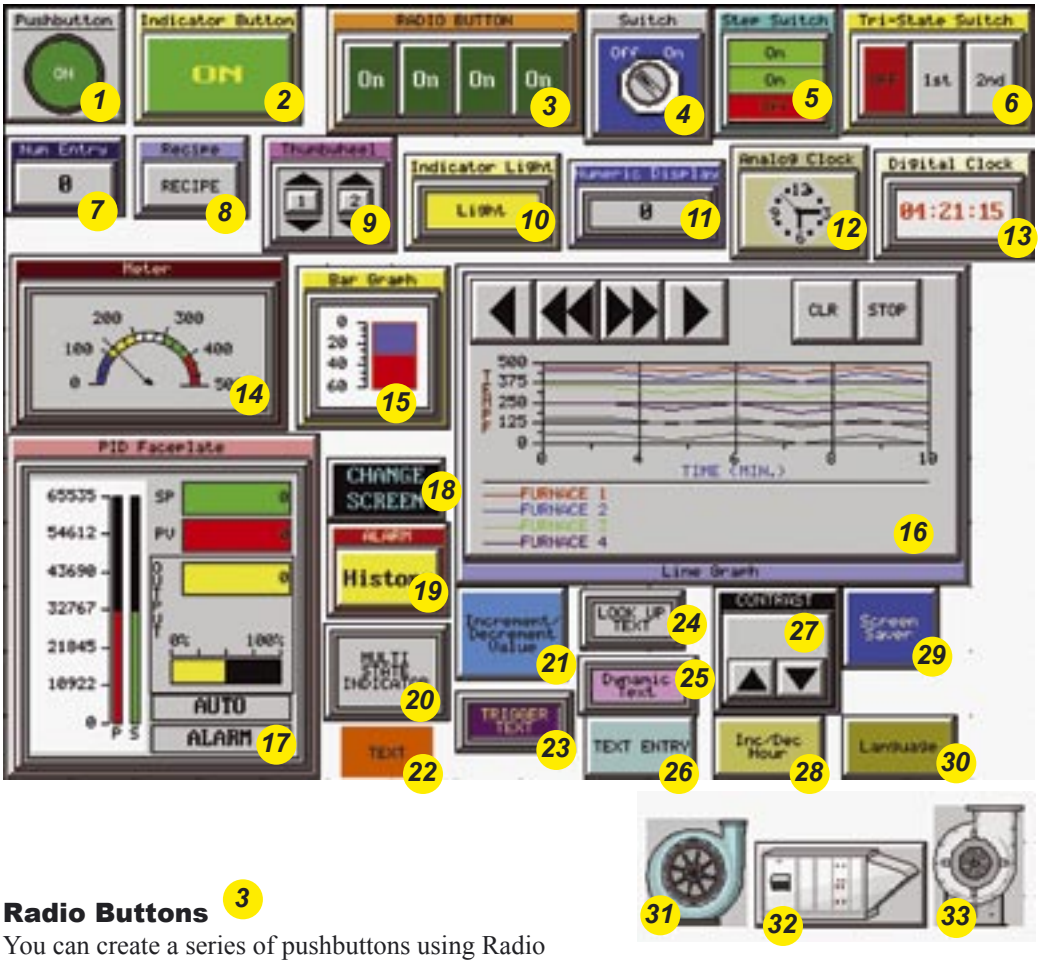


Meter is now on the EZTouch panel

EZPanel Enhanced Objects

The Most Sensible, Best-Looking Objects Available

The screen below shows a configuration of the available 33 objects in EZPanel Enhanced editor. This and the following page describe some of the featured objects available in the EZPanel Enhanced.



1	Pushbutton
2	Indicator Button
3	Radio Button
4	Switch
5	Step Switch
6	Tri-State Switch
7	Numeric Entry
8	Recipe
9	Thumbwheel
10	Indicator Light
11	Numeric Display
12	Analog Clock
13	Digital Clock
14	Meter
15	Bar Graph
16	Line Graph
17	PID Faceplate
18	Screen Change
19	Alarm History
20	Multi-state Indicator
21	Increment/Decrement
22	Static Text
23	Trigger Text
24	Lookup Text
25	Dynamic Text
26	Text Entry
27	Adjust Contrast
28	Inc/Dec Hour
29	Activate Screen Save
30	Select Language
31	Dynamic Bitmap
32	Bitmap Button
33	Multi-state Bitmap

Radio Buttons 3

You can create a series of pushbuttons using Radio Button Object. When one button is on, all the other buttons are off (Only one button/station active at one time, like an old car radio)

Meters 14

Meter Object has many style types and operations available. EZPanel Enhanced Editor allows you to custom design the color bars for alarm zones and also allows you to select the number of divisions to be displayed. The meters provide an excellent graphical representation of analog gauges.

Line and Bar Graphs 15 16

The Line and Bar graph objects have an outstanding resolution. You can custom design the legend for X and Y axis and assign labels to major “tic” marks on a chart. Just adding a bit of color makes them as visually appealing as they are functional. Line graph object has a VCR type forward/backward controls to view historical data.

PID Faceplate 17

Use our PID faceplate for PLC systems capable of PID loops. PID faceplate allows you to display values for three PID loop controlled parameters in the form of bar graphs.

EZPanel Enhanced Objects

Recipe Objects 8

By using one of our most desired Recipe objects, you can download up to 20 pre-set or variable PLC registers per Recipe in the EZPanel Enhanced panel. This object can also be used to set values in PLC registers to change a process all together!

With one press of a button, you can view all of the tag-names and values of the recipe batch.

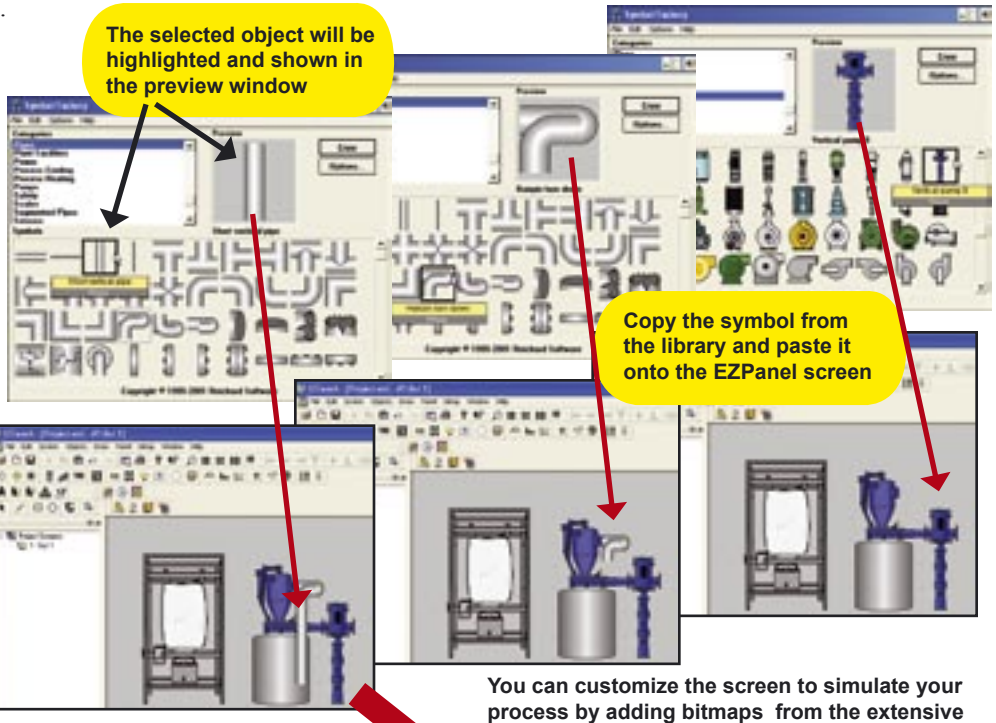
Alarm History 19

Use our pre-built Alarm History button to show Alarm Count and Alarm History with one touch of a button. Alarm History displays all the alarms triggered sequentially with the most recent one right on the top, whereas Alarm Count displays the exact number of times a certain alarm has been triggered. Use this great preventive maintenance tool to replace any components that need to be changed. Any time an alarm is highlighted and selected, it will show you all the details that you'll ever need to know including the time it was triggered, the time it was cleared, date stamp, upper and lower limits along with the limit that tripped an alarm.

With a push of a button, you can view Alarm Count, Alarm History, and Alarm Details.

Bitmap Objects 31 32 33

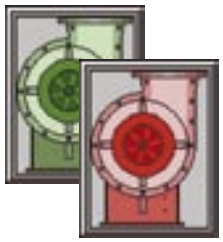
EZPanel Enhanced editor allows you to create Dynamic Bitmaps, Multi-state Bitmaps, Button Bitmaps, and Static Bitmap Objects in a breeze. There is a built in library of 4,000 objects available for you to copy and paste directly to a project screen and use them in any arrangement or position them just the way you like.

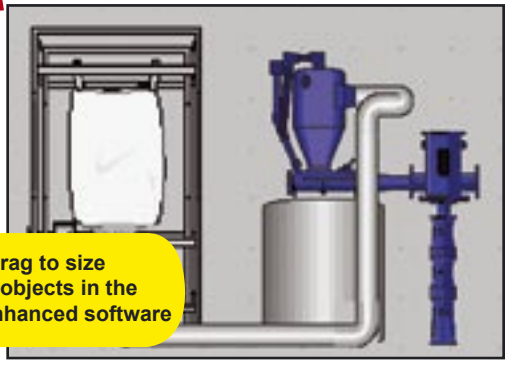

The selected object will be highlighted and shown in the preview window
Copy the symbol from the library and paste it onto the EZPanel screen

For a true dynamic simulation, use our Dynamic Bitmap object to stack layers upon layers of bitmap objects which only allows one bitmap object to be displayed at one time based on whether it is triggered by a control program or the panel itself. For example, you can display a red image of a blower when it's turned off and a green image when turned on. Dynamic Bitmap Objects allow you to select different bitmaps for "On" and "Off" states of a PLC/Internal register. Under "On Bitmap" settings, select a green blower (using the symbol factory) and repeat for "Off Bitmap" with a red blower. That's it! And you have created a dynamic simulation of your blower.

Multi-State Bitmaps have the same functionality of Dynamic Bitmap buttons with only one difference: It is a lot more powerful in that it allows you to display all the way to 16 bitmaps based on the value of a bit in a word or a word address.

A 'Bitmap Button' object is a "Button" which is capable of displaying different bitmap images when turned on or off by a user with the touch of a button. On the other hand a 'Static Bitmap' lets you display a bitmap (imported, copied from clipboard, or symbol factory) which can be resized within the editor and stays static on a screen, e.g. a company logo.





You can customize the screen to simulate your process by adding bitmaps from the extensive symbol library included in the EZPanel Enhanced Software.

EZPanel Enhanced Editor

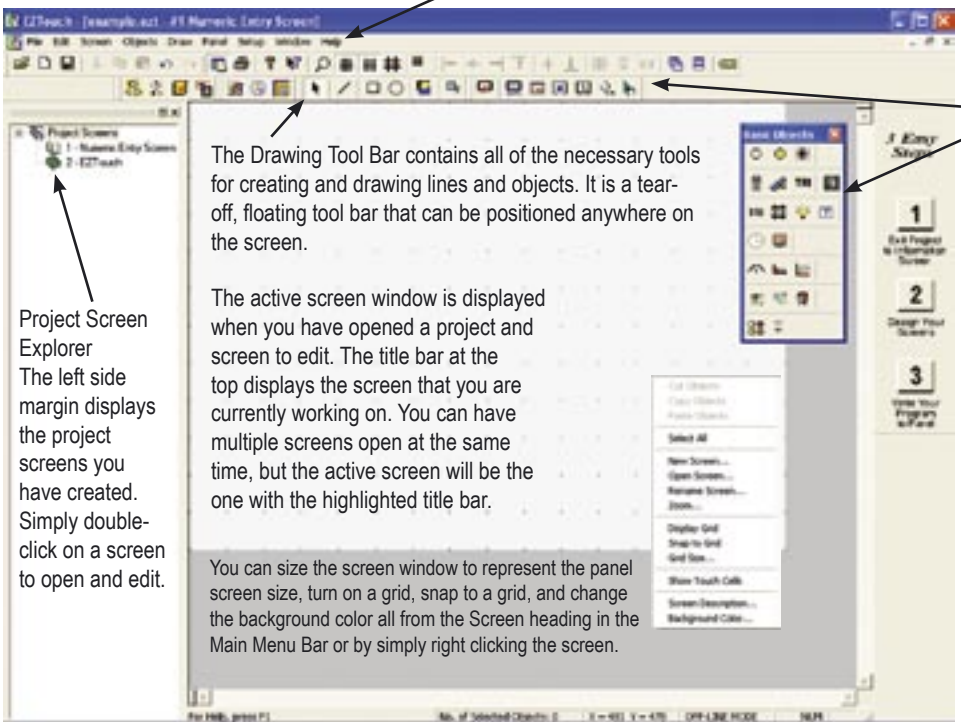
Easy-to-use Programming Software

EZPanel Enhanced Editor is by far one of the easiest to use programming software available in the market. You just saw a presentation of our editor's most powerful objects in the last few pages. Now let's take a look at how easy and simple it is to create some of those objects.

The EZPanel programming software is just like any other windows application that comes with a main menu bar, tear off toolbars, a Project Screen Explorer, a main window area, and individual screen windows. Build multiple screens at the same time and display them as tiled or cascaded in the main window.

Toolbars

EZPanel Enhanced Editor allows you to place up to nine different toolbars (Standard, Basic Objects, System Objects, Text Objects, Bitmap Objects, Draw, Panel 3 Easy Steps, and Project Screens). These are fully customizable toolbars and can be moved and placed to your liking. The following example shows how the basic toolbar is moved to the right of the screen and also shows the flyover tip associated with each object. You can also display 'Panel' toolbar by selecting it through 'Edit' pull down section. The following icons are present in 'Panel' toolbar: Write to Panel, Panel Information, Display Screen, Reboot Panel, Panel Time and Date, and Diagnostics.


Main Menu Bar
The Drawing Tool Bar contains all of the necessary tools for creating and drawing lines and objects. It is a tear-off, floating tool bar that can be positioned anywhere on the screen.
Project Screen Explorer
The left side margin displays the project screens you have created. Simply double-click on a screen to open and edit.
The active screen window is displayed when you have opened a project and screen to edit. The title bar at the top displays the screen that you are currently working on. You can have multiple screens open at the same time, but the active screen will be the one with the highlighted title bar.
You can size the screen window to represent the panel screen size, turn on a grid, snap to a grid, and change the background color all from the Screen heading in the Main Menu Bar or by simply right clicking the screen.

Tear-off floating toolbar contains all of the objects represented by an icon. Each icon has fly-over help that gives a brief description of the object icon. Simply click on the object that you want to create and the associated dialog box will appear prompting you with the necessary information to build the object.

Minimum PC Requirements

- Pentium, 133 MHz, CD ROM
- 32MB RAM
- 87 MB free disk space
- WIN95/98/2000/NT4.0/XP/XP Pro
- Color SVGA
  800x600 minimum
  1024x768 recommended

Online Programming

Online program editing is one of the most powerful features of EZPanel Enhanced panel. It lets you program your panel 'Online' without losing any precious time uploading and downloading projects to a panel. Just connect your panel to your computer, select online programming, edit, and save your entire project while your panel is online with a PLC.

In case you missed our illustration of just how important and powerful this feature is, please review pages 3-8 and 3-9 as it explains in detail this huge time saving feature!

Windows Architecture

EZPanel Enhanced programming software is built on the Windows 32-bit system architecture and thus utilizes all the functionality associated with it. The 'Main Menu Bar' has pull downs for every menu, some of which provide even more dialog boxes when selected, along with the flyover tips. Whenever the cursor is on top of one of these icons, a brief description or a hot key is displayed on top of it for you to navigate with ease. This information is very helpful when trying to determine the right kind of object or selection amongst all the options available to you. Multiple screens in the main programming window can be tiled or cascaded as per your preference and can also be minimized/maximized within the main window.

EZPanels Enhanced Editor

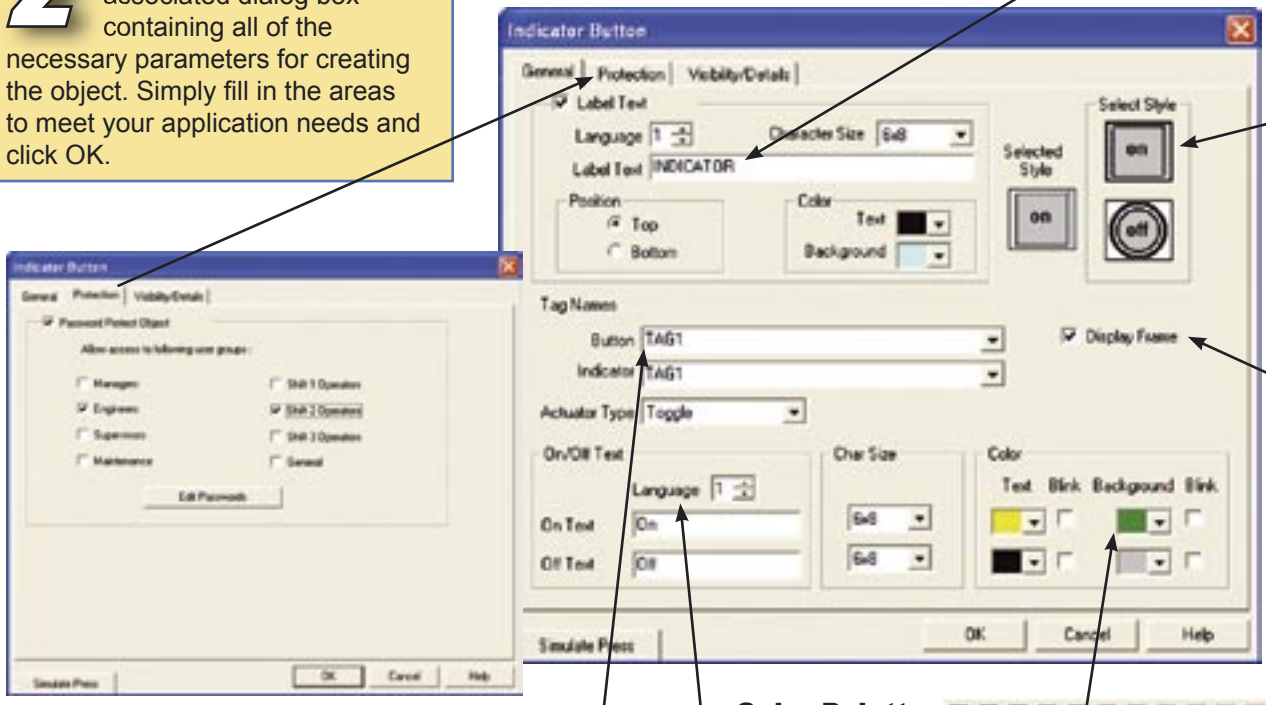
1 Using the tool bar or pull-down menu, select the object that you want to create.

It's as EZ as 1-2-3 to Create an Object

2 Each object has an associated dialog box containing all of the necessary parameters for creating the object. Simply fill in the areas to meet your application needs and click OK.

Typical object configuration dialog box

You can custom label the objects by enabling the text and typing in the name you want.



Most of the objects have a style selection of how the object will appear on the screen.

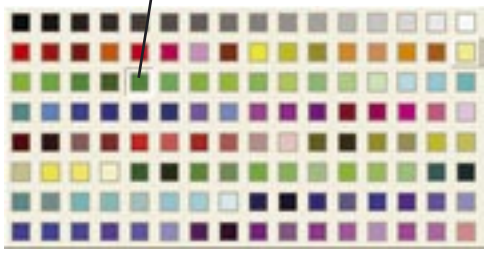
(Example shown at step 3)

Password Protection

Most functional objects have password protection built-in for up to eight different user groups. Simply choose the group or level of protection and enter the password.

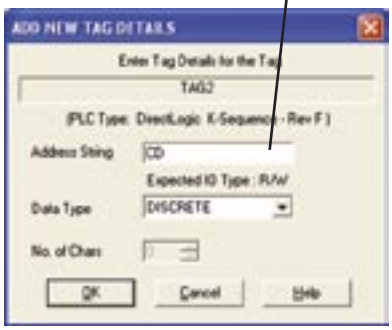
Color Palette

The color palette has 128 available colors for text, background, indicators and other object parameters.



PLC Addressing

One of the fields to be completed in the object creation window is the PLC tagname. Type in the tagname and the appropriate PLC address string and data type, and the object will be linked to the PLC. It's that easy!



Nine Different Languages

With EZPanel's multiple language capabilites, you can now program the text for Panel components in up to 9-different languages. This means English reading operators can work with the panel in English, while the Spanish proficient operators can work in the Spanish language on the same panel. Also, with up to 9 different languages, OEMs exporting to other countries can develop programs to cover many of the commonly used languages.

3 Object is drawn on the screen.

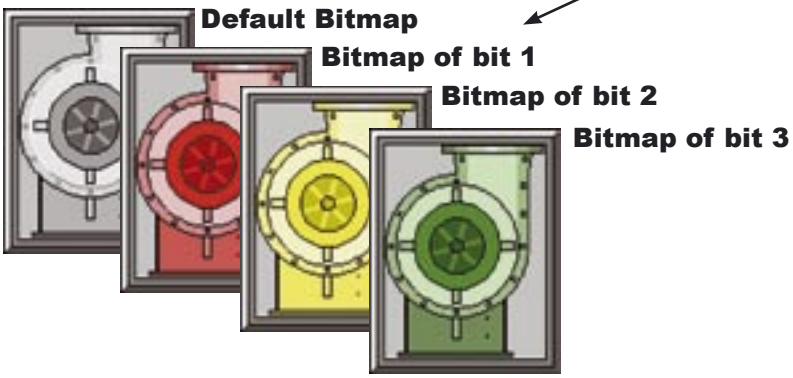
with Display Frame

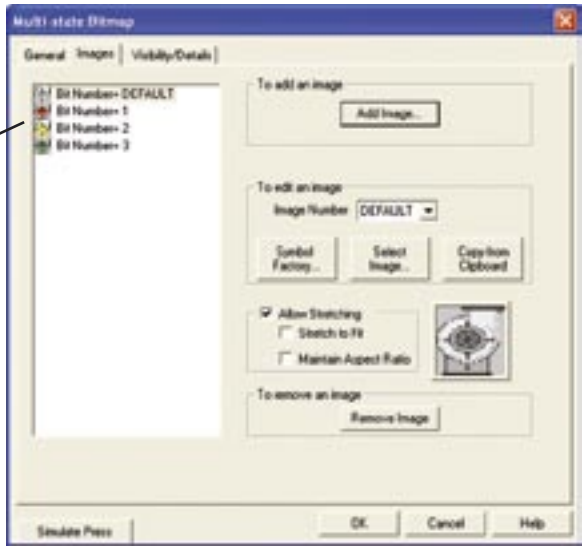
without Display Frame

EZPanel Enhanced Editor

Multi-state Bitmap Object

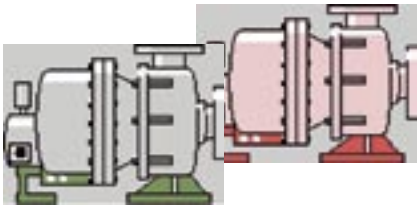
This object displays images within a given frame on the EZPanel. The object displays one image at a time based upon the bit that is on or the value of a tag. The maximum number of images is limited only by memory size. Our bitmaps use significantly lower memory because of our vector graphics.

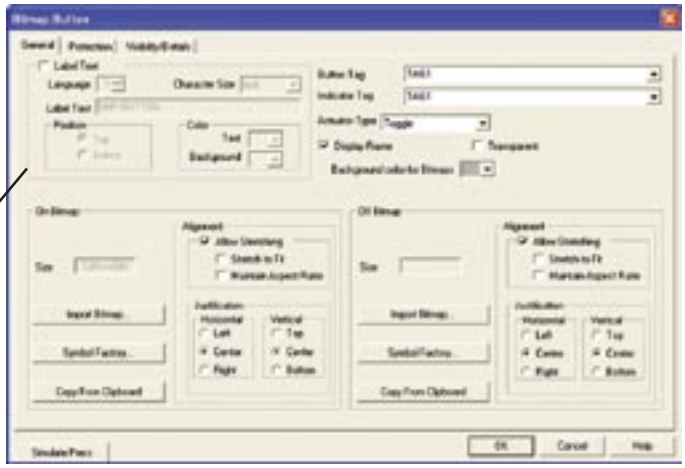




Bitmap Button Object

This object combines the function of a dynamic bitmap, an indicator light and a button. It allows both writing to a bit and reading from another bit. The read bit determines whether the button is in the on condition or the off condition. Read and Write locations could be the same.

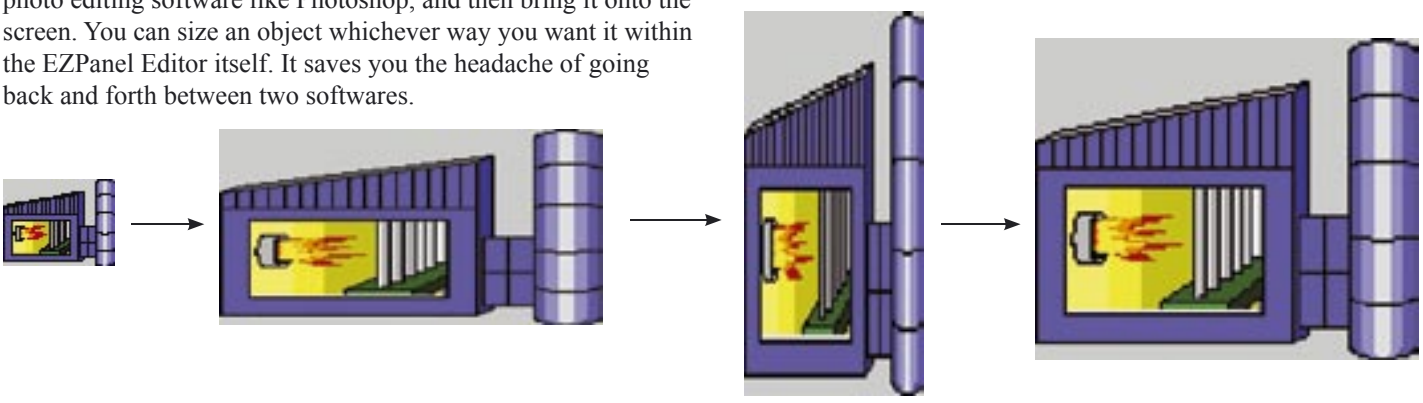




Sizing Bitmap Objects

Patent pending

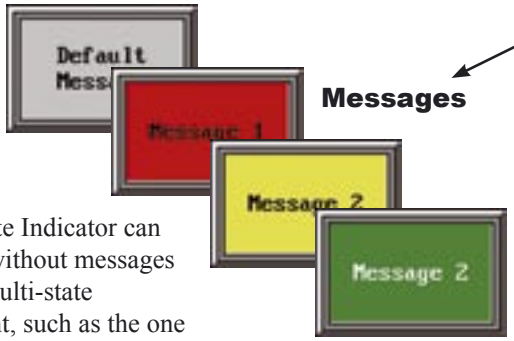
The EZPanel Enhanced Editor has a patent pending feature that saves the programmer from having to size a bitmap in another photo editing software like Photoshop, and then bring it onto the screen. You can size an object whichever way you want it within the EZPanel Editor itself. It saves you the headache of going back and forth between two softwares.



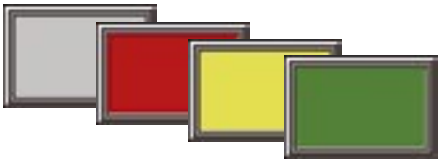
EZPanel Enhanced Editor

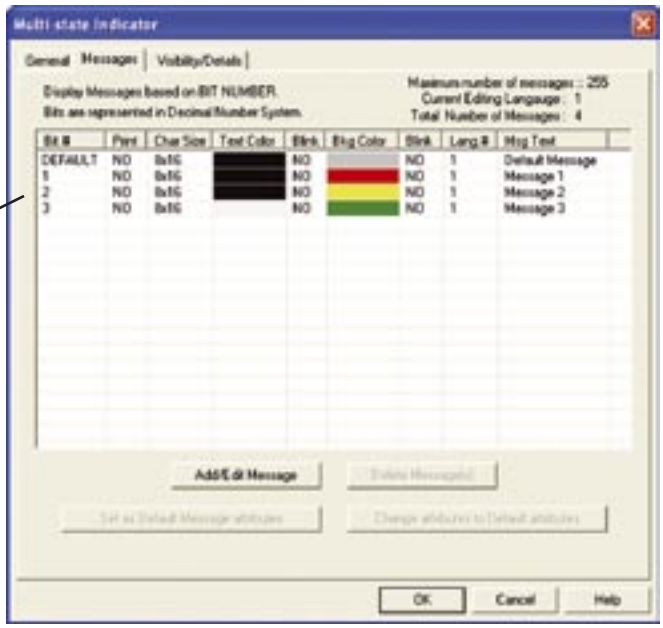
Multi-state Indicator Object

The Multi-state Indicator Object has been created to display preprogrammed messages within a frame on the EZPanel. Each object has its own message storage and does not need an external database. 256 messages can be displayed based upon the value of a bit or of a tag.



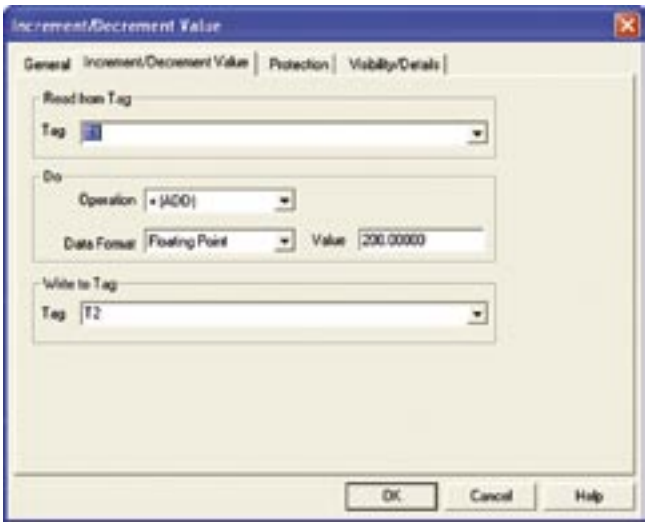
The Multi-state Indicator can also be used without messages as simply a Multi-state Indicator Light, such as the one shown here.





Increment/Decrement Value Object

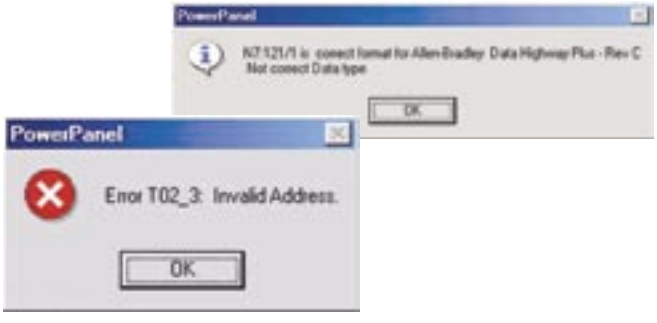
This object allows you to program a button that allows addition or subtraction of a preprogrammed value read from one tag and written to another as shown to the right.



Syntax Checking of Address

EZPanel Enhanced Editor's intelligent software checks for the PLC address syntax as well as the correct data type, at the time of its entry, making EZPanel's programming software virtually error-proof.

By finding simple mistakes formed at the beginning of the programming process, this simple feature found on our EZPanels can save your company both time and money.



EZPanel™ ENHANCED Overview

Introduction

The EZPanel Enhanced PLC Touch Panels are the most advanced operator panels in the industry, yet the EZiest to use and program. They also have almost universal connectivity to most PLCs and industrial networks. They are available in 8 different display models, all using common CPU and flash firmware which is field upgradeable.

Features

- Incredible 3-D graphical objects: pushbuttons, numeric entry, meters, line graphs, PID faceplates, etc. All are high-speed, vector-based objects with amazing scalability.
- 128 colors for use in objects and graphics
- Display text in up to nine different languages (user-selected by a push of a button!)
- Built-in Symbol Factory with over 4,000 symbols
- Screen and object password protection (eight user-defined levels)
- Unmatched alarm capability with history, count and details
- Recipe downloads to the PLC:20 values into 20 registers (fixed or variable)
- Floating-point numbers to and from PLC
- Built-in clock and calendar
- Forty-character tagnames mapped to PLC addresses
- Optional 512 K, 1 MB, and 2 MB flash memory cartidge for non-volatile program storage and distribution
- Expandable RAM memory cartridge for up to a total of 1 MB
- Bitmaps can now be sized on the screen in the EZPanel Software
- Import/export tags to/from Excel or CSV files - Export messages to Excel or CSV file
- Export alarms to Excel or CSV file
- Multi-state Bitmap object (bit or word selectable)
- Multi-state Indicator/Message object (bit or word selectable) allows up to four embedded data variables in messages
- Bitmap Button object
- Scalable meters and bar graphs
- Floating point support for Meters, Bar Graphs, PID and Line Graphs
- User-selectable 3-D frames
- Password protected Alarms

Enhanced Programming Features

- Allows overlapping of the objects
- Allows free-sizing of touch objects
- Convenience features, such as pick and apply styles and display of address on objects
- Support for jpeg, gif, ico images
- New 4,000 Symbol Library

AB Driver Enhancements

- Support for ST & Long File types in AB drivers
- Support for full range of I/O and direct addressing of I/O for DF1 and Micrologix
- Driver for SLC 5/05 over Ethernet (legacy Ethernet I/P)
- Support ControlLogix and Compact Logix Tag names
- Support for binary files (B3:0/0) using shortcut method of B3/0, B3/1, B3/2

Options

- High speed Ethernet communication module
- Non-Volatile Flash memory cartridges are available in 512K, 1 MB, or 2 MB capacity. These Flash cartridges (starting at €46 for 512K) are great for transporting programs.

Universal Ethernet Port for PLC Networks

Select from:

- **DF1 over Ethernet**
- **SRTP over Ethernet**
- **Modbus TCP/IP over Ethernet**
- **AB's IP Protocol over Ethernet**

Getting Started

Installing the software and configuring the EZPanel is simple to do. You will only need the following items to successfully connect and configure the panel:

- EZPanel Enhanced
- 24 VDC power supply (min. 1.5A, switching)
- Programming cable
- PLC interface cable
- PC
- EZPanel Enhanced Programming Software

Easy Installation

Installing a panel is as EZ as 1-2-3!

1. Mounting

Since the EZPanel Enhanced panel is a front-panel mount unit, it requires a panel cutout, which you can mount by either drilling holes for mounting screws or installation of add-on DIN clips to secure the panel to the mounting area. You can find the information on dimensions and installation on specific model pages starting on page 3-37.

2. Wiring and Connections

After mounting the EZPanel, configure the protocol type in the software and connect the unit.

3. Communications Setup

For your convenience, our panel ships with default communication parameters which can be later defined by the user. Ensure that the settings are correct, change them if necessary, and you're ready to begin your project.

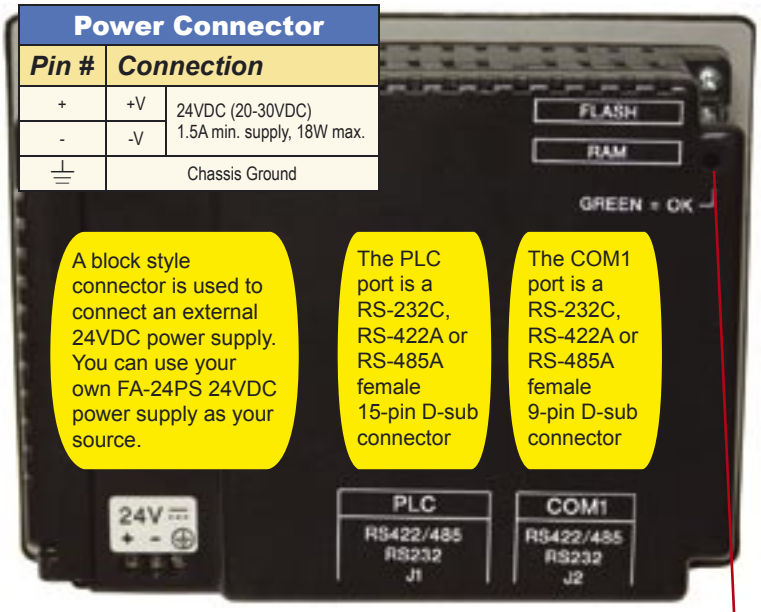
EZPanel Enhanced Overview

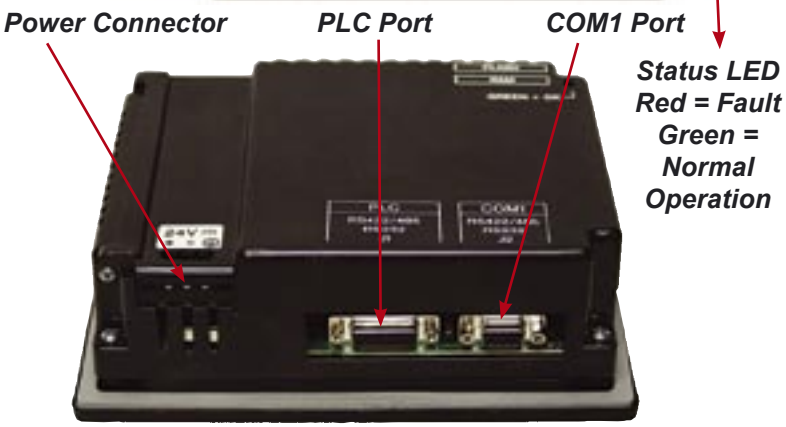
PLC/Network Drivers

PLC Compatibility Table			
PLC/Network	**Model**		**Protocols**
EZAutomation	EZPLC		EZ Protocol
Allen-Bradley	MicroLogix 1000/1200/1500 SLC 500, 5/01, /02, /03		DH485/AIC/AIC+
	MicroLogix 1000, 1200 and 1500 SLC 5/03, /04, /05, PLC-5 (w/DF1)		DF 1 Half Duplex; DF1 Full Duplex
	SLC 5/04, PLC 5		DH+ (Option Card)
	PLC5		DF 1
	PLC 2, 3 and 5		Remote I/O (w/DH+ Option Card)
Aromat	Aromat		Mewtocol COM
Control Techniques	Unidrive 2-wire, 4-wire		Binary
Control Technology Corporation (CTC)	CTC 2600, 2700 and 5100		CTC Binary
DeviceNet	DeviceNet I/O		Generic DeviceNet I/O (Option Card)
Ethernet	ControlLogix, MicroLogix, CompactLogix, GE Versamax		Ethernet/IP, SRTP, DF1, Modbus TCP/IP
General Electric	90/30 and 90/70 Versamax		SNPX, SNP
Idec	Idec		Computer Link
Mitsubishi	FX Series (all)		Direct
	CC Link		CC Link Protocol
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU: 311-xx, 411-xx, 512-xx, 612-xx		Modbus RTU
	984 Series, Quantum Series		Modbus Plus (Option Card)
Omron	C200, C500, CQM1, CPM1, CPM2		Host Link
Profibus	Profibus-DP		Generic Profibus-DP (Option Card)
DirectLOGIC	DL05		K-Sequence, DirectNet, MODBUS (Koyo Addressing)
	DL105		K-Sequence
	DL205	D2-230	K-Sequence
		D2-240	K-Sequence, DirectNet
		D2-250	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D2-240/250DCM	DirectNet
	DL305	D3-330/330P	DirectNet
		D3-340	DirectNet
		D3-350	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		D3-350 DCM	DirectNet
	DL405	D4-430	K-Sequence, DirectNet
		D4-440	K-Sequence, DirectNet
		D4-450	K-Sequence, DirectNet, MODBUS (Koyo Addressing)
		All with DCM	DirectNet
Siemens	Siemens S7 MPI Adapter		3964R
	Siemens S7-200		S7-200
Square D Symax	300 Series CPU, 400 Series CPU		Symax
Texas Instruments	TI5X5 Series - TI505, TI 545-1102, TI545-1104		TBP (Transparent Byte Protocol) or NITP (Non-Intelligent Terminal Protocol)
Uni-Telway	Telemecanique TSX 37 Micro		UNI-TE (Version 1.1)

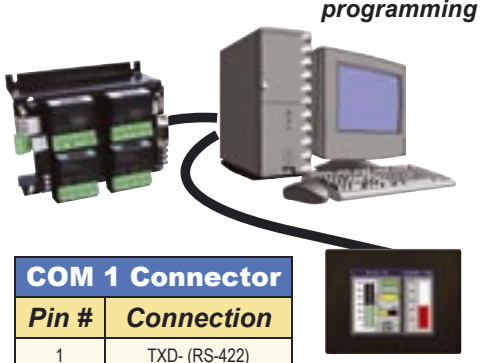
EZPanel Wiring

Power Connector		
Pin #	**Connection**	
+	+V	24VDC (20-30VDC) 1.5A min. supply, 18W max.
-	-V	
⏚	Chassis Ground	


FLASH
RAM
GREEN = OK
A block style connector is used to connect an external 24VDC power supply. You can use your own FA-24PS 24VDC power supply as your source.
The PLC port is a RS-232C, RS-422A or RS-485A female 15-pin D-sub connector
The COM1 port is a RS-232C, RS-422A or RS-485A female 9-pin D-sub connector
24V
PLC
RS422/485
RS232
J1
COM1
RS422/485
RS232
J2



Setup for online programming



PLC Connector	
Pin #	**Connection**
1	Chassis GND
2	PLC TXD (RS-232)
3	PLC RXD (RS-232)
4	+5V
5	Logic GND
6	LE
7	PLC CTS (RS-232)
8	PLC RTS (RS-232)
9	RXD+ (RS-422)
10	RXD- (RS-422)
11	TXD+ (RS-422)
12	TXD- (RS-422)
13	Terminating resistor
14	NC
15	NC

COM 1 Connector	
Pin #	**Connection**
1	TXD- (RS-422)
2	TXD (RS-422)
3	RXD (RS-232)
4	RXD- (RS-232
5	Logic GND
6	TXD+ (RS-422)
7	CTS (RS-232)
8	RTS (RS-232)
9	RXD+ (RS-422)

EZPanel's RAM and Flash Card Options

EZPanel Enhanced's Firmware is stored in the internal Flash memory of the panel which can be field upgraded through it's programming port.

The user program resides in the battery backed RAM of the panel. A backup battery provides power to the unit when external 24VDC power input is not present. If the backup battery is removed while the unit is without external 24VDC power, the user program residing in the RAM of the unit will be lost.

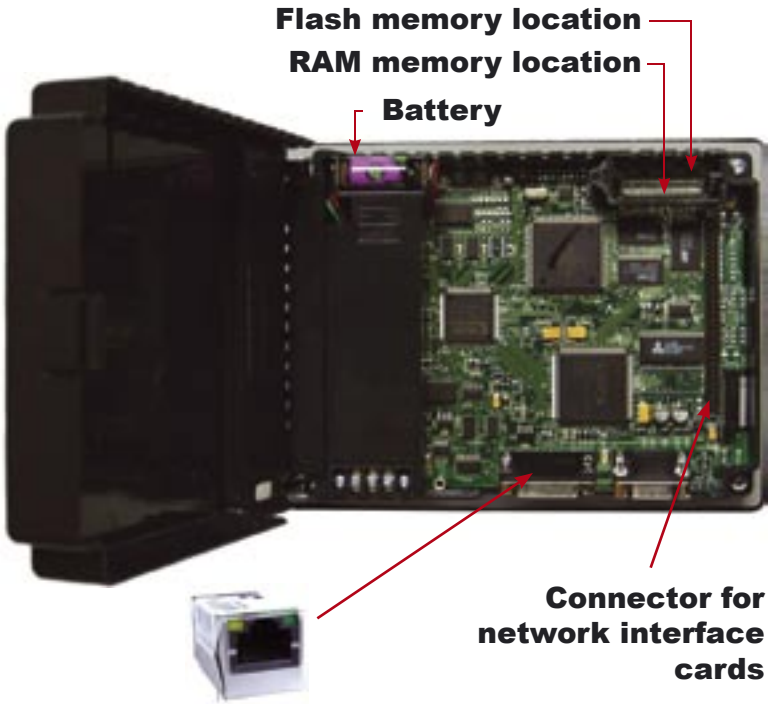
Optional FLASH Card

Flash cards for EZPanel Enhanced are used for backup of user-programs. There are three sizes of flash cards available (512K, 1MB, and 2MB). When an EZPanel powers up it always checks for a flash card. If present, it loads the user-program from the flash card into the RAM of the panel.

1. Use flash cards for backing up user-programs. If the user program gets corrupted you will always have a backup copy for immediate transfer to a panel without the need of a PC.
2. Take advantage of programming multiple units without a PC just by powering them up with the flash card installed. Once the unit powers up, the flash card can be removed and the user-program will reside in the RAM of the panel.
3. OEMs can distribute upgrades/updates of applications on flash cards which can be utilized by Users to transfer the updated/upgraded user-programs to the RAM of a panel without the need of a PC.

Optional RAM Card

There are two sizes of plug-in RAM cards available, 512K and 1MB RAM, for expanding the available RAM on a panel. For most applications, the available RAM is more than sufficient for typical user-programs. For applications utilizing extensive bitmaps and/or screens can take advantage of plug-in RAM cards for expanding program storage space.



RJ45 Connector in place of 15-pin D-Sub for Universal Ethernet models

Battery Replacement

3.6 volt high energy Lithium battery is used to provide back-up power for program storage in the sytem RAM. EZPanel has a low battery indicator on the screen. It is recommended that the battery is replaced every five years.

RAM memory card installed

Flash Card getting installed

Connecting to a PLC/Programming Computer is EZ

Cable Connections

Due to the new drivers that have been added to our EZPanel Enhanced panels, we have added many new cables for the various communication methods.

Cable Part Number	Cable Description	Price
EZP-PGMCBL	10 ft. Programming Cable	€20
EZP-CBL	10 ft. EZPLC cable RS232	€20
EZP-2CBL	10 ft. RS 232C, 15 pin D-shell male to RJ12	€20
EZP-2CBL-1	10 ft. RS 232C, 15 pin D-shell male to15 pin male	€20
EZP-3CBL	10 ft. RS 232C, 15 pin D-shell male to RJ11	€20
EZP-4CBL-1	10 ft. RS 232C, 15 pin to 15 pin D-shell male	€20
EZP-4CBL-2	10 ft. RS 232C, 15 pin to 25 pin D-shell male	€20
EZP-MLOGIX-CBL	10 ft. Allen-Bradley MicroLogix 1000, 1200, 1500	€25
EZP-SLC-232-CBL	10 ft. Allen-Bradley SLC 5-03-04-05 with DF-1 port	€20
EZPLC5-232-CBL	10 ft. Allen-Bradley PLC-5 CPU with DF1 port	€20
EZP-DH485-CBL	10 ft. Allen-Bradley SLC 500 with DH485 port	€22
EZP-90-30-CBL	10 ft. GE Fanuc Series 90/30 and 90/70 using SNPX	€20
EZP-MITSU-CBL	10 ft. Mitsubishi FX Series 15-25 pin D-shell male	€20
EZP-MITSU-CBL-1	10 ft. Mitsubishi FX Series 15-8 DIN	€20
EZP-S7MPI-CBL	10 ft. Siemens Simatic 7 15-9 D-shell	€20
EZP-OMRON-CBL	10 ft. Omron C200-C500 with Hostlink protocol	€20
EZP-ARCOL-CBL	10 ft. Aromat Mewtool COM	€20
EZP-CTRLUNI-CBL	10 ft. Control Techniques (Emerson) RS422 4 wire	€20
EZP-CTCBI-CBL	10 ft. CTC Binary, RS232	€20
EZP-IDECM-CBL	10 ft. IDEC Micro, 8 pin mini DIN	€20
EZP-MODUNI-CBL	10 ft. Modicon Uni-Telway	€20
EZP-MODRTU-CBL	10 ft. Modbus RTU	€20
EZP-MODTCP-CBL	10 ft. Modbus TCP/IP	€20
EZP-S7200-CBL	10 ft. Siemens S7 200	€20
EZP-SYMAX-CBL	10 ft. Square D Symax	€20
EZP-TX505-CBL	10 ft. Texas Instrument 505	€20
EZP-CTRLUNI-CBL-1	10 ft. Control Technologies RS485, 2 wire	€20
EZP-IDECS-CBL	10 ft. IDEC Smart	€20
EZP-TX545-CBL	10 ft. Texas Instrument 545-1102, RS422	€20
EZP-TX545-CBL1	10 ft. Texas Instrument 545-1104, RS422	€20
EZP-MODRJ-CBL	10 ft. RS232 15 pin D-shell male to RJ45	€20

EZPanel Accessories

Part Number	Description	Price
EZP-PANELEDIT	EZPanel Programming Software	€99
EZP-PANEL-M	Hardware User Manual	€15
EZP-RAM-1	512K RAM Card	€50
EZP-RAM-2	1MB RAM Card	€97
EZP-FLASH-1	512K Flash Card	€46
EZP-FLASH-2	1MB Flash Card	€56
EZP-FLASH-3	2MB Flash Card	€80
EZP-ETHERNET	DirectLogic Ethernet Option Interface Card	€190
EZP-ETHERPLUS	Modbus TCP/IP or DirectLogic Ethernet Option Card	€240
EZP-BAT	Replacement 1/2 AA, 3.6 volt Lithium Battery	€20
EZP-BRK-1	EZTouch optional DIN Mounting Clips (pk. of 2)	€15
EZP-COMCON3	15-pin male D-sub connectors with terminal blocks, for connecting RS422 network cable from EZTouch or EZText panels	€19
EZP-PANEL6-GSK	(6") Standard Replacement Gasket for all 6" panels	€8
EZP-PANEL8-GSK	(8") Standard Replacement Gasket	€8
EZP-PANEL10-GSK	(10") Standard Replacement Gasket	€8
EZ-PANEL-STUDS	Spare mounting studs (four with nuts)	€8
EZP-6SLIMF-GSK	(6") Slim bezel FDA replacement gasket	€8
EZP-8SLIMF-GSK	(8") Slim bezel FDA replacement gasket	€25
EZP-10SLIMF-GSK	(10") Slim bezel FDA replacement gasket	€30
EZP-15SLIMF-GSK	(15") Slim bezel FDA replacement gasket	€34
EZP-COV6	Pack of 3 protective shields for any 6" EZTouch panel	€20
EZP-COV8	Pack of 3 protective shields for any 8" EZTouch panel	€34
EZP-COV10	Pack of 3 protective shields for any 10" EZTouch panel	€38
EZP-COV15	Pack of 3 protective shields for any 15" EZTouch panel	€56

EZPanel Enhanced Selection Guide and Specifications

EZPanel 6-inch Model Specifications				
Part Number	***EZP-S6W-RS*** (Non-expandable) €399 ***EZP-S6W-RSU*** €798 (Universal Ethernet, No Flash/RAM expansion)	***EZP-S6M-F*** (All Serial Drivers) €519 ***EZP-S6M-FH*** (DH+, Remote I/O) €1019 ***EZP-S6M-R*** (Non-expandable) €419 **Not distributed in Europe**	***EZP-S6M-FS*** (Full Featured) €549 ***EZP-S6M-FSC*** (CC Link) €1049 ***EZP-S6M-FSD*** (DeviceNet) €1449 ***EZP-S6M-FSE*** (Ethernet IP) €1449 ***EZP-S6M-FSH*** (DH+, Remote I/O) €1049 ***EZP-S6M-FSM*** (Modbus Plus) €1049 ***EZP-S6M-FSP*** (Profibus) €1449 ***EZP-S6M-FST*** (Modbus TCP/IP) €849 ***EZP-S6M-FSU*** (Universal Ethernet) €948 ***EZP-S6M-ES*** (EZPLC) €419 ***EZP-S6M-RS*** (Non-expandable) €449	***EZP-S6C-F*** (All Serial Drivers) €799 ***EZP-S6C-FH*** (DH+, Remote I/O) €1299 ***EZP-S6C-K*** (Koyo Only) €699 **Not distributed in Europe**
Specification	6" white on blue	6" gray scale	6" slim bezel gray scale	6" color
Enclosure	NEMA 1	NEMA 4, 4X (indoor)	NEMA 1, FDA Compliant	NEMA 4, 4X (indoor)
Display Type	5.7" STN (4 shades of blue)	5.7" STN (16 shades of gray)		5.7" STN (128 colors)
Display View Area	4.72"x3.5" (119.4x88.9 mm)			
Screen Pixels	320x240			
Brightness/Life	140 nits/25,000 hours			180 nits/25,000 hours
Touch Screen	48 resistive touch cells (8x6)		192 resistive touch cells (16x12) except -ES and -RS models have 48 (8x6)	48 resistive touch cells (8x6)
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.2A switching supply recommended			
Power	10 watts @ 24VDC	12 watts @ 24VDC		13 watts @ 24VDC
Agency Approval	UL, CUL, CE pending	UL, CUL, CE		
Operating Temp.	0 to 45°C (32 to 113°F)			
Storage Temp.	-20 to 60°C (-4 to 140°F)			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	256KB System RAM memory only	(all except -R) 512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer (-R) 256KB System RAM memory only	(all except -ES and -RS) 512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer (-ES and -RS) 256KB System RAM memory only	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer
# of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
External Dimensions	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)	7.30"x8.94"x2.29" (185.42x226.076x58.166mm)
Weight	1.7 lbs	1.4 lbs	1.7 lbs	1.4 lbs

EZAutomation EZPanel NEMA Ratings

The NEMA rating of all operator interface products in this catalog relates only to the front bezel since only the front bezel is exposed to the external environment and the backend is enclosed inside an appropriately sealed enclosure used by the customer. The Touchpanels in this catalog have either NEMA 1 FDA Compliant or NEMA 4, 4x (Indoor) rating. Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced Selection Guide and Specifications

EZPanel 6 and 8-inch Model Specifications				
Part Number	***EZP-S6C-FS*** (Full Featured) €799 ***EZP-S6C-FSC*** (CC Link) €1299 ***EZP-S6C-FSD*** (DeviceNet) €1699 ***EZP-S6C-FSE*** (Ethernet IP) €1699 ***EZP-S6C-FSH*** (DH+, Remote I/O) €1299 ***EZP-S6C-FSM*** (Modbus Plus) €1299 ***EZP-S6C-FSP*** (Profibus) €1699 ***EZP-S6C-FST*** (Modbus TCP/IP) €1069 ***EZP-S6C-FSU*** (Universal Ethernet) €1198 ***EZP-S6C-ES*** (EZPLC) €699 ***EZP-S6C-KS*** (Koyo only) €749	***EZP-T6C-FS*** (Full Featured) €999 ***EZP-T6C-FSC*** (CC Link) €1499 ***EZP-T6C-FSD*** (DeviceNet) €1899 ***EZP-T6C-FSE*** (Ethernet IP) €1899 ***EZP-T6C-FSH*** (DH+, Remote I/O) €1499 ***EZP-T6C-FSM*** (Modbus Plus) €1499 ***EZP-T6C-FSP*** (Profibus) €1899 ***EZP-T6C-FST*** (Modbus TCP/IP) €1269 ***EZP-T6C-FSU*** (Universal Ethernet) €1398 ***EZP-T6C-ES*** (EZPLC) €899	***EZP-S8C-F*** (Full Featured) €949 ***EZP-S8C-FC*** (CC Link) €1449 ***EZP-S8C-FD*** (DeviceNet) €1849 ***EZP-S8C-FE*** (Ethernet IP) €1899 ***EZP-S8C-FH*** (DH+, Remote I/O) €1449 ***EZP-S8C-FM*** (Modbus Plus) €1449 ***EZP-S8C-FP*** (Profibus) €1899 ***EZP-S8C-FT*** (Modbus TCP/IP) €1399 ***EZP-S8C-FU*** (Universal Ethernet) €1348	***EZP-S8C-FS*** (Full Featured) €949 ***EZP-S8C-FSC*** (CC Link) €1449 ***EZP-S8C-FSD*** (DeviceNet) €1849 ***EZP-S8C-FSE*** (Ethernet IP) €1899 ***EZP-S8C-FSH*** (DH+, Remote I/O) €1449 ***EZP-S8C-FSM*** (Modbus Plus) €1449 ***EZP-S8C-FSP*** (Profibus) €1899 ***EZP-S8C-FST*** (Modbus TCP/IP) €1399 ***EZP-S8C-FSU*** (Universal Ethernet) €1348
Specification	6" color slim bezel		8" color slim bezel	
Enclosure	NEMA 1, FDA compliant		NEMA 4, 4X (indoor)	NEMA 1, FDA compliant
Display Type	5.7" STN (128-color palette)	5.7" TFT (128-color palette)	8.2" STN (128-color palette)	
Display View Area	4.65"x3.5" (118.1 x 88.9mm)		6.65"x5.024" (168.9 x 127.61mm)	
Screen Pixels	320x240		640x480	
Brightness/Life	180 nits/25,000 hours	200 nits/50,000 hours	140 nits/25,000 hours	140 nits/25,000 hours
Touch Screen	192 resistive touch cells (16x12)			
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended			
Power	13 Watts @ 24VDC	15 Watts @ 24VDC	16 Watts @ 24VDC	
Agency Approval	UL, CUL, CE	UL, CUL, CE pending	UL, CUL, CE	
Operating Temp.	0 to 50°C (32 to 122°F)	0 to 55°C (32 to 131°F)	0 to 50°C (32 to 122°F)	
Storage Temp.	-25 to 60°C (-13 to 140°F)	-25 to 65°C (-13 to 149°F)	-25 to 60°C (-13 to 140°F)	
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer			
# of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
External Dimensions	6.145"x8.048"x2.433" (156.078x204.407x51.786mm)		8.748"x10.894"x2.289" (222.199x276.708x58.136mm)	
Weight	1.7 lbs		2.9 lbs	

Not distributed in Europe

EZAutomation EZPanel NEMA Ratings

The NEMA rating of all operator interface products in this catalog relates only to the front bezel since only the front bezel is exposed to the external environment and the backend is enclosed inside an appropriately sealed enclosure used by the customer. The Touchpanels in this catalog have either NEMA 1 FDA Compliant or NEMA 4, 4x (Indoor) rating. Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced Selection Guide and Specifications

EZPanel 8, 10 and 15-inch Model Specifications			
Part Number	***EZP-T8C-F*** (Full Featured) €1399 ***EZP-T8C-FC*** (CC Link) €1899 ***EZP-T8C-FD*** (DeviceNet) €2299 ***EZP-T8C-FE*** (Ethernet IP) €2299 ***EZP-T8C-FH*** (DH+, Remote I/O) €1899 ***EZP-T8C-FM*** (Modbus Plus) €1899 ***EZP-T8C-FP*** (Profibus) €2299 ***EZP-T8C-FT*** (Modbus TCP/IP) €1799 ***EZP-T8C-FU*** (Universal Ethernet) €1798 ***EZP-T8C-E*** (EZPLC) €1299	***EZP-T10C-F*** (Full Featured) €1649 ***EZP-T10C-FC*** (CC Link) €2199 ***EZP-T10C-FD*** (DeviceNet) €2599 ***EZP-T10C-FE*** (Ethernet IP) €2599 ***EZP-T10C-FH*** (DH+, Remote I/O) €2199 ***EZP-T10C-FM*** (Modbus Plus) €2199 ***EZP-T10C-FP*** (Profibus) €2599 ***EZP-T10C-FT*** (Modbus TCP/IP) €2199 ***EZP-T10C-FU*** (Universal Ethernet) €2098 ***EZP-T10C-E*** (EZPLC) €1599	***EZP-T10C-FS*** (Full Featured) €1699 ***EZP-T10C-FSC*** (CC Link) €2199 ***EZP-T10C-FSD*** (DeviceNet) €2599 ***EZP-T10C-FSE*** (Ethernet IP) €2599 ***EZP-T10C-FSH*** (DH+, Remote I/O) €2199 ***EZP-T10C-FSM*** (Modbus Plus) €2199 ***EZP-T10C-FSP*** (Profibus) €2599 ***EZP-T10C-FST*** (Modbus TCP/IP) €2199 ***EZP-T10C-FSU*** (Universal Ethernet) €2098	***EZP-T15C-FS*** (Full Featured) €2499 ***EZP-T15C-FSC*** (CC Link) €2999 ***EZP-T15C-FSD*** (DeviceNet) €3399 ***EZP-T15C-FSE*** (Ethernet IP) €3399 ***EZP-T15C-FSH*** (DH+, Remote I/O) €2999 ***EZP-T15C-FSM*** (Modbus Plus) €2999 ***EZP-T15C-FSP*** (Profibus) €3399 ***EZP-T15C-FST*** (Modbus TCP/IP) €3299 ***EZP-T15C-FSU*** (Universal Ethernet) €2898
Specification	8" color slim bezel	10" color slim bezel		15" color slim bezel
Enclosure	NEMA 4, 4X (indoor)	NEMA 4, 4X (indoor)	NEMA 1, FDA compliant	NEMA 1, FDA compliant
Display Type	8 " TFT (128-color palette)	10.4" TFT (128-color palette)		15.0" TFT (128-color palette)
Display View Area	6.05"x4.55" (153.7 x 115.8mm)	8.31"x6.22" (211.07 x 158mm)		12.02"x9.01" (305.28 x 228.96mm)
Screen Pixels	640x480			
Brightness/Life	200 nits/40,000 hours			250 nits/40,000 hours
Touch Screen	192 resistive touch cells (16x12)			
CPU Type	Motorola Coldfire 32-bit CPU (40 MHz)			
Service Power	24VDC (20-30VDC operating range), 1.5A switching supply recommended			
Power	18 Watts @ 24VDC			20 Watts @ 24VDC
Agency Approval	UL, CUL, CE pending	UL, CUL, CE		
Operating Temp.	0 to 55°C (32 to 131°F)			
Storage Temp.	-25 to 65°C (-13 to 149°F)			
Humidity	10-95% RH, noncondensing			
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test			
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)			
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)			
Vibration	5 to 55Hz 2G for 2 hours in the X, Y and Z axes			
Shock	10G for under 12ms in the X, Y and Z axes			
User Memory	512KB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer			1MB system RAM memory, 512K and 1MB Option RAM Card for Memory Expansion; 1MB or 2MB Option Flash Card for Memory Backup/Transfer
# of Screens	Up to 999 limited by memory			
Real Time Clock	Built into panel (PLC clock is still accessible if available)			
Screen Saver	Yes, Backlight off			
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)			
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)			
External Dimensions	8.748"x10.894"x2.289" (222.199x276.708x58.136mm)	10.59"x13.58"x2.86" (268.99x344.93x72.64mm)		13.00"x16.75"x4.66" (330.2 x 425.45 x 118.36mm)
Weight	2.9 lbs	3.8 lbs		7 lbs

Not distributed in Europe

EZAutomation EZPanel NEMA Ratings

The NEMA rating of all operator interface products in this catalog relates only to the front bezel since only the front bezel is exposed to the external environment and the backend is enclosed inside an appropriately sealed enclosure used by the customer. The Touchpanels in this catalog have either NEMA 1 FDA Compliant or NEMA 4, 4x (Indoor) rating. Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 6” White on Blue Panel

6” White on Blue EZPanel Enhanced - Slim Bezel (5.7” STN)

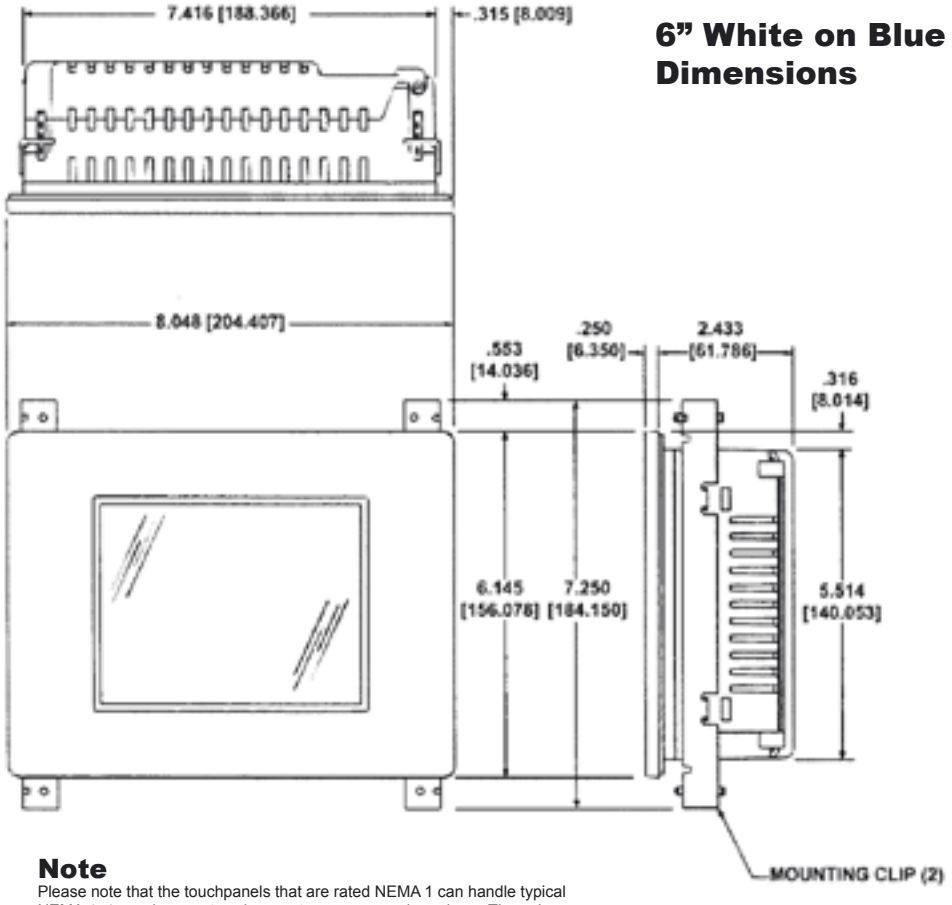
EZPanel Enhanced’s 6” slim bezel White on Blue panel has a 5.7” diagonal touch screen with 320x240 pixel resolution with 4 shades of blue. This panel is a new addition to the EZPanel Enhanced line with a LCD (liquid crystal display) and is available for serial drivers or Universal Ethernet with a choice of either DF1, I/P, Modbus TCP/IP or SRTP protocols. This panel has a very low slim profile along with a smaller footprint on enclosures.

6” White on Blue models feature:

- 5.7” diagonal LCD
- 4 shades of blue
- NEMA 1
- 320x240 pixel resolution
- 140 nits brightness
- 25,000 hour expected bulb half-life
- 48 touch cells (8x6)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 2.3” (59.0mm) installed depth
- 256K RAM, not expandable
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

Model Number	Interface	Price
EZP-S6W-RS	All serial drivers	€399
EZP-S6W-RSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€798

6” White on Blue Dimensions



Note

Please note that the touchpanels that are rated NEMA 1 can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 6” Mono Slim Bezel Panels

6” Monochrome EZPanel Enhanced - Slim Bezel (5.7” STN)

EZPanel Enhanced’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have an STN LCD (liquid crystal display) with 16 shades of gray. EZPanel enhanced are available in 2 models:
1) Reduced Memory, not expandable, no network cards, 48 touch cells
2) Full memory, expandable, all network option cards, 192 touch cells

All these panels have a very low slim profile along with a smaller footprint on enclosures.

6” Mono models feature:

- 5.7” diagonal mono STN LCD
- 16 shades of gray
- NEMA 1, FDA compliant
- 320x240 pixel resolution
- 140 nits brightness
- 25,000 hour expected bulb half-life
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 2.3” (59.0mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the charts to the right

Model Number	Interface	Price
EZP-S6M-ES	EZPLC only	€419
EZP-S6M-RS	All serial drivers (non-expandable)	€449

Panels with Reduced Features offer:

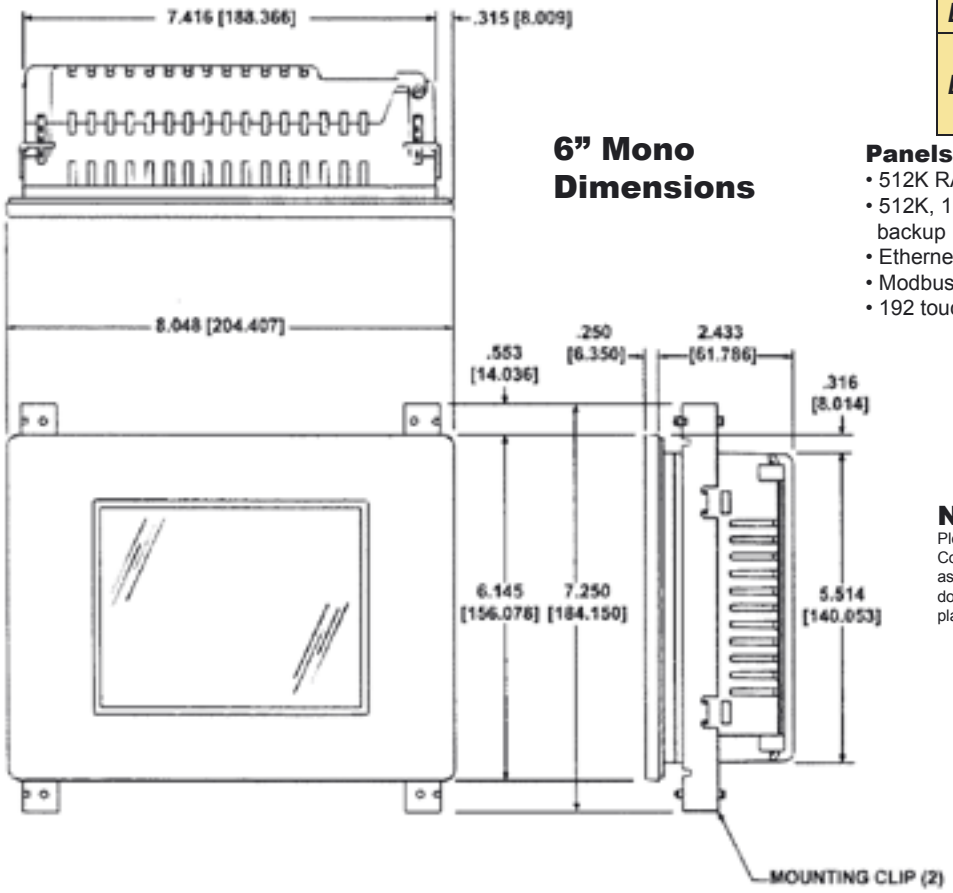
- 256K RAM, not expandable
- No Ethernet card support
- 48 touch cells (8x6)

Model Number	Interface	Price
EZP-S6M-FS	All serial drivers and accepts optional Ethernet and network cards	€549
EZP-S6M-FSD	DeviceNet	€1,449
EZP-S6M-FSE	AB Ethernet I/P	€1,449
EZP-S6M-FSH	DH+, Remote I/O	€1,049
EZP-S6M-FSM	Modicon MB+	€1,049
EZP-S6M-FSP	Profibus	€1,449
EZP-S6M-FST	Modbus TCP/IP	€849
EZP-S6M-FSC	CCLink	€1,049
EZP-S6M-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€948

Panels with Full Memory offer:

- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZ-ETHERNET)
- Modbus TCP/IP card optional (EZ-ETHERPLUS)
- 192 touch cells (16x12)

6” Mono Dimensions



Note

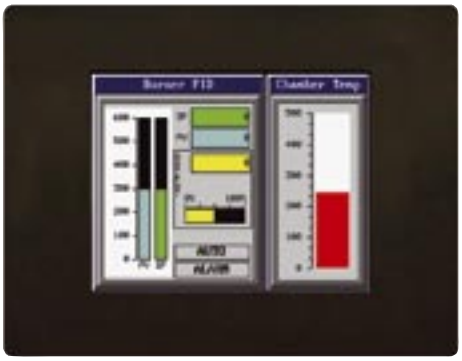
Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

+49 (0) 2161 464470

EZPanel Enhanced 6” STN Color Slim Bezel Panels

6” Color EZPanel Enhanced - Slim Bezel (5.7” STN)

EZPanel Enhanced’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. These panels have a STN LCD (liquid crystal display).



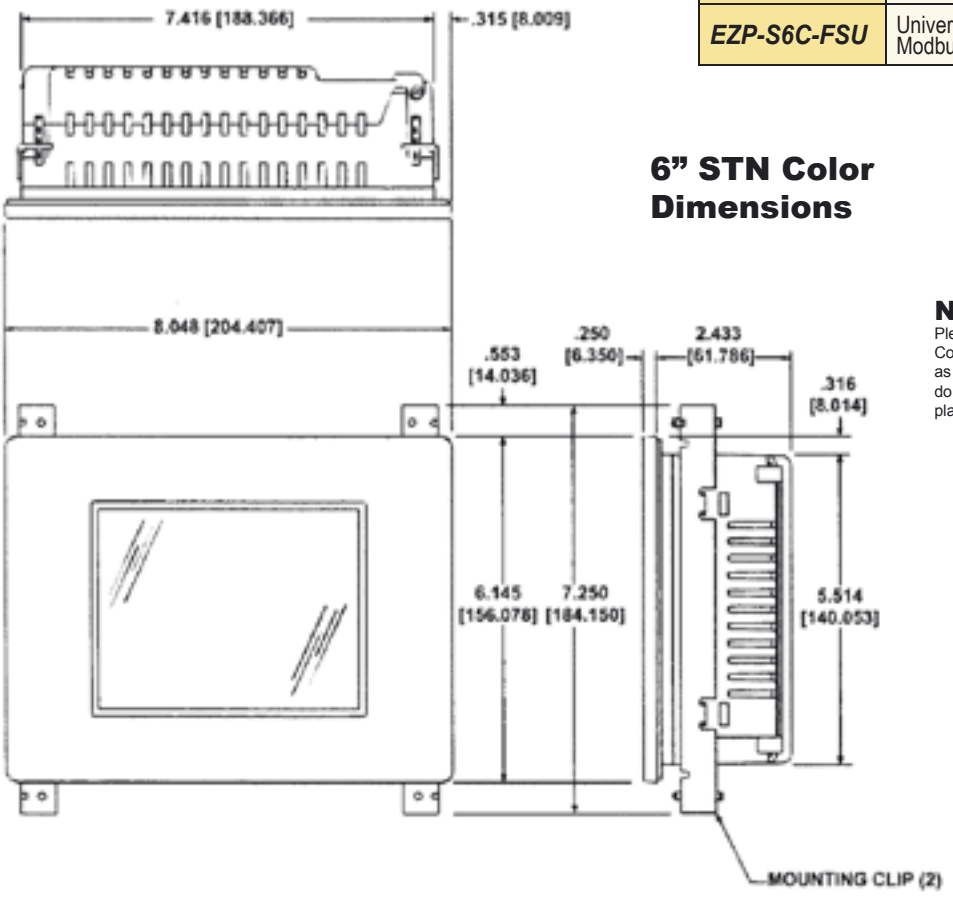
6” STN Color models feature:

- 5.7” diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 1, FDA compliant
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 180 nits brightness
- 25,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 2.3” (59.0mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the many different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-S6C-KS	Koyo Direct Logic serial driver only	€749
EZP-S6C-ES	EZPLC driver only	€699
EZP-S6C-FS	All serial drivers and accepts optional Ethernet and network cards	€799
EZP-S6C-FSD	DeviceNet	€1,699
EZP-S6C-FSE	AB Ethernet I/P	€1,699
EZP-S6C-FSH	DH+, Remote I/O	€1,299
EZP-S6C-FSM	Modicon MB+	€1,299
EZP-S6C-FSP	Profibus	€1,699
EZP-S6C-FST	Modbus TCP/IP	€1,069
EZP-S6C-FSC	CCLink	€1,299
EZP-S6C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€1,198

6” STN Color Dimensions



Note

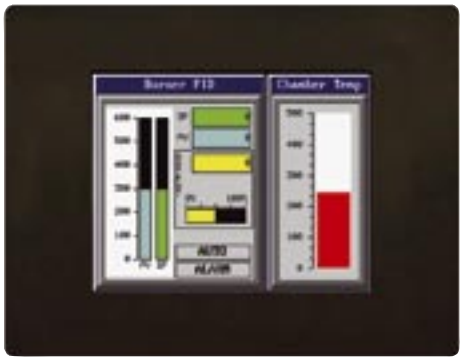
Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 6” TFT Color Slim Bezel Panels

6” Color EZPanel Enhanced - Slim Bezel (5.7” TFT)

EZPanel Enhanced’s 6” slim bezel panels have a 5.7” diagonal touch screen with 320x240 pixel resolution. This model is a new addition to EZPanel Enhanced line with a TFT LCD (liquid crystal display).

All these panels have a very low slim profile along with a smaller footprint on enclosures.



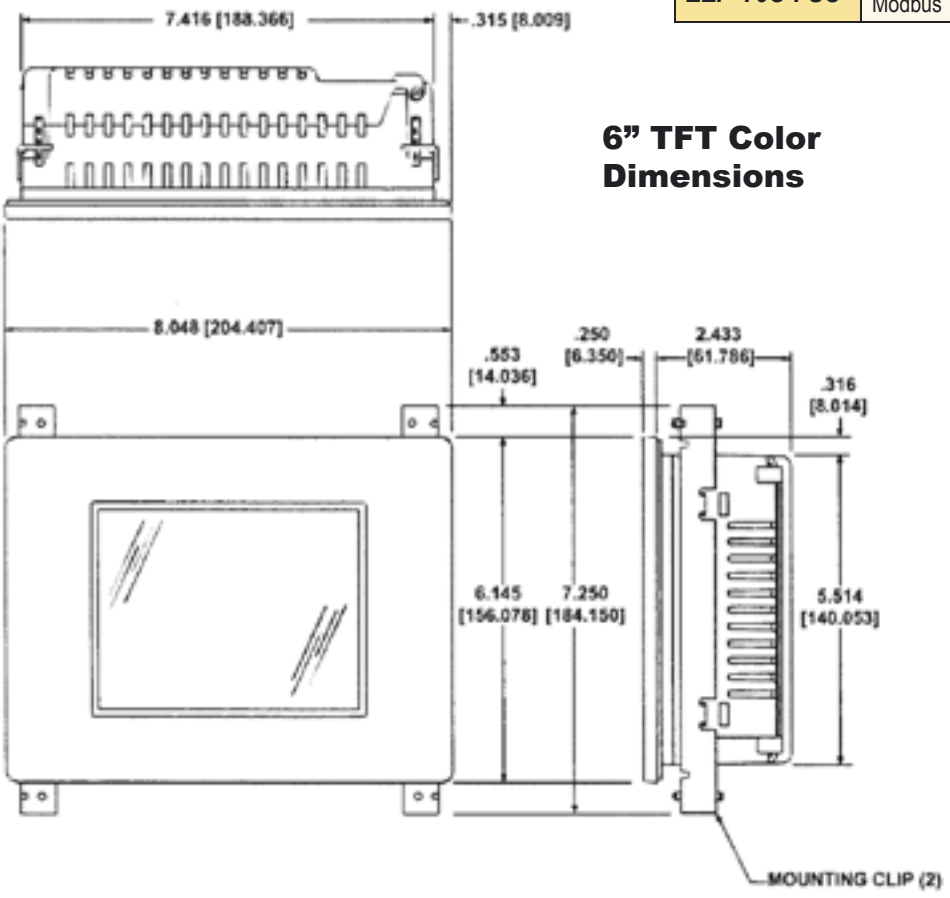
6” TFT Color models feature:

- 5.7” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 1, FDA compliant
- 320x240 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- 200 nits brightness
- 50,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 2.3” (59.0mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-T6C-ES	EZPLC driver only	€899
EZP-T6C-FS	All serial drivers and accepts Ethernet and network cards	€999
EZP-T6C-FSD	DeviceNet	€1,899
EZP-T6C-FSE	AB Ethernet I/P	€1,899
EZP-T6C-FSH	DH+, Remote I/O	€1,499
EZP-T6C-FSM	Modicon MODBUS Plus	€1,499
EZP-T6C-FSP	Profibus	€1,899
EZP-T6C-FST	MODBUS TCP/IP	€1,269
EZP-T6C-FSC	CCLink	€1,499
EZP-T6C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€1,398

6” TFT Color Dimensions



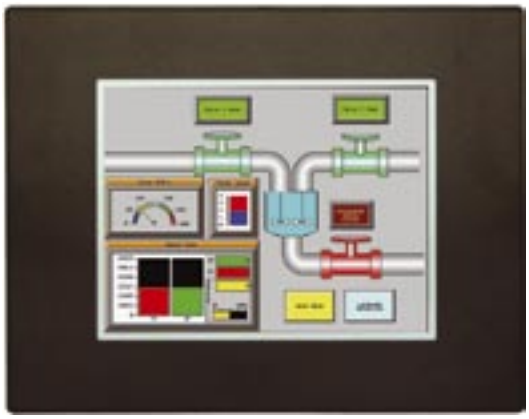
Note

Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 8” STN Color Slim Bezel Panels

8” Color EZPanel Enhanced - Slim Bezel (8.2” STN)

The 8” color EZPanel Enhanced slim bezel panels have a 8.2” diagonal touch screen, with a 640x480 pixel resolution and feature a STN LCD (liquid crystal display). All models feature a low-profile slim bezel design that provides a small footprint on your enclosure. These panels are available in either NEMA 1, FDA compliant or NEMA 4, 4X housing. See note below.



Features

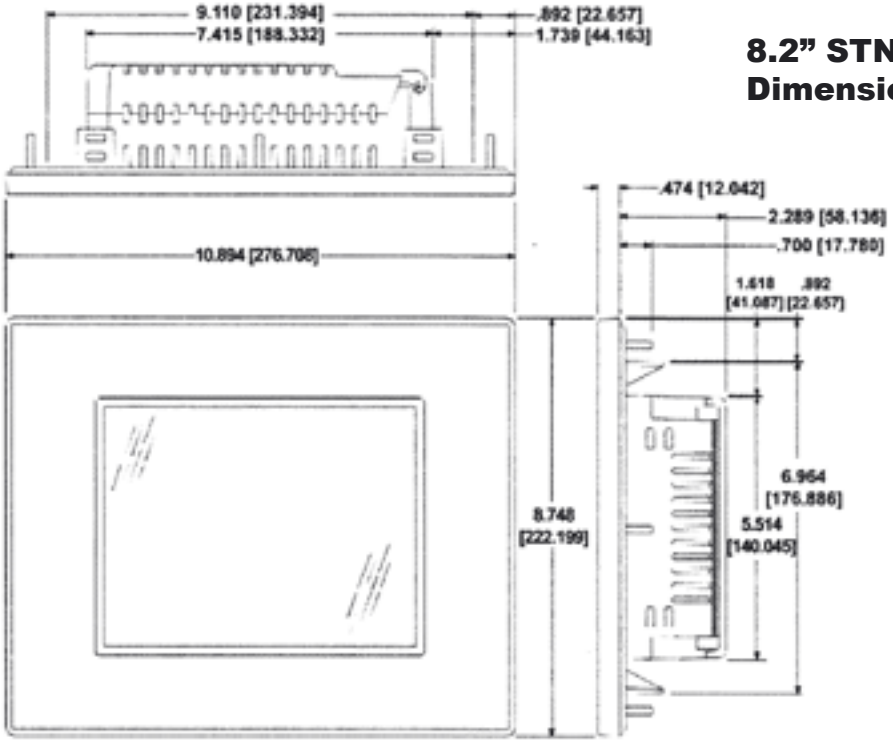
- 8.2” diagonal color STN LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 140 nits brightness
- 25,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.76” (60.53mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-S8C-FS	All serial drivers and accepts optional Ethernet and network cards	€949
EZP-S8C-FSD	DeviceNet	€1,849
EZP-S8C-FSE	AB Ethernet I/P	€1,899
EZP-S8C-FSH	DH+, Remote I/O	€1,449
EZP-S8C-FSM	Modicon MB+	€1,449
EZP-S8C-FSP	Profibus	€1,899
EZP-S8C-FST	MODBUS TCP/IP	€1,399
EZP-S8C-FSC	CCLink	€1,449
EZP-S8C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€1,348

Panels NEMA 1, FDA Compliant

8.2” STN Color Dimensions



Note

Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 8” TFT Color Slim Bezel Panels

8” Color EZPanel Enhanced - Slim Bezel (8” TFT)

EZPanel Enhanced’s 8” slim bezel panels have a 8” diagonal touch screen with 640x480 pixel resolution. This model is a new addition to EZPanel Enhanced line with a TFT LCD (liquid crystal display).

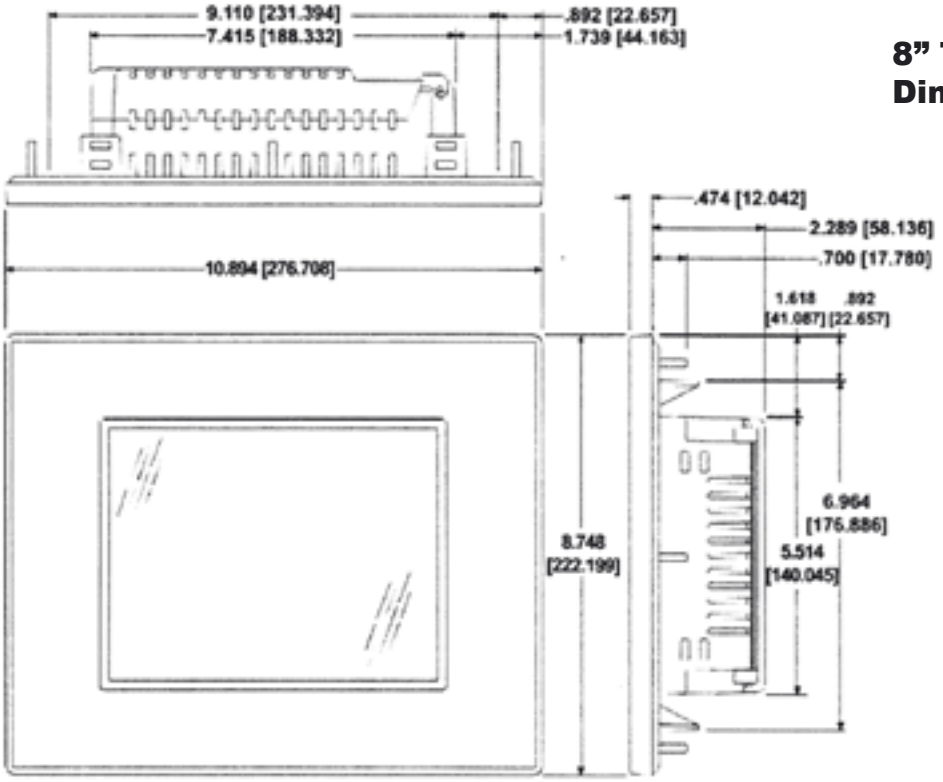
All these panels have a very low slim profile along with a smaller footprint on enclosures.

Features

- 8” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 200 nits brightness
- 40,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.76” (70.10mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-T8C-E	EZPLC only	€1,299
EZP-T8C-F	All serial drivers and accepts Ethernet and network cards	€1,399
EZP-T8C-FD	DeviceNet	€2,299
EZP-T8C-FE	AB Ethernet I/P	€2,299
EZP-T8C-FH	DH+, Remote I/O	€1,899
EZP-T8C-FM	Modicon MODBUS Plus	€1,899
EZP-T8C-FP	Profibus	€2,299
EZP-T8C-FT	MODBUS TCP/IP	€1,799
EZP-T8C-FC	CCLink	€1,899
EZP-T8C-FU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€1,798



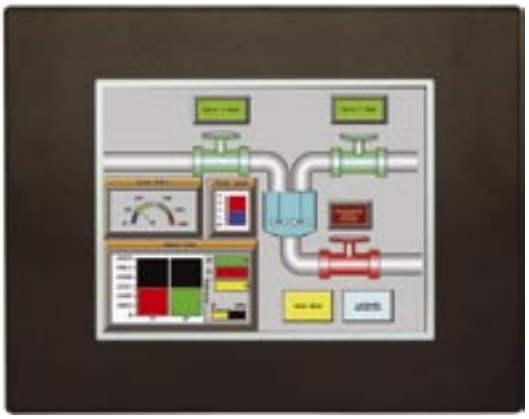
8” TFT Color Dimensions

+49 (0) 2161 464470

EZPanel Enhanced 10” TFT Color Slim Bezel Panels

10” Color EZPanel Enhanced - Slim Bezel (10.4” TFT)

The 10” color EZPanel Enhanced slim bezel panels have a 10.4” diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display). All models feature a low-profile slim bezel design that provides a small footprint on your enclosure. These panels are available in either NEMA 1, FDA compliant or NEMA 4, 4X housing. See note below.



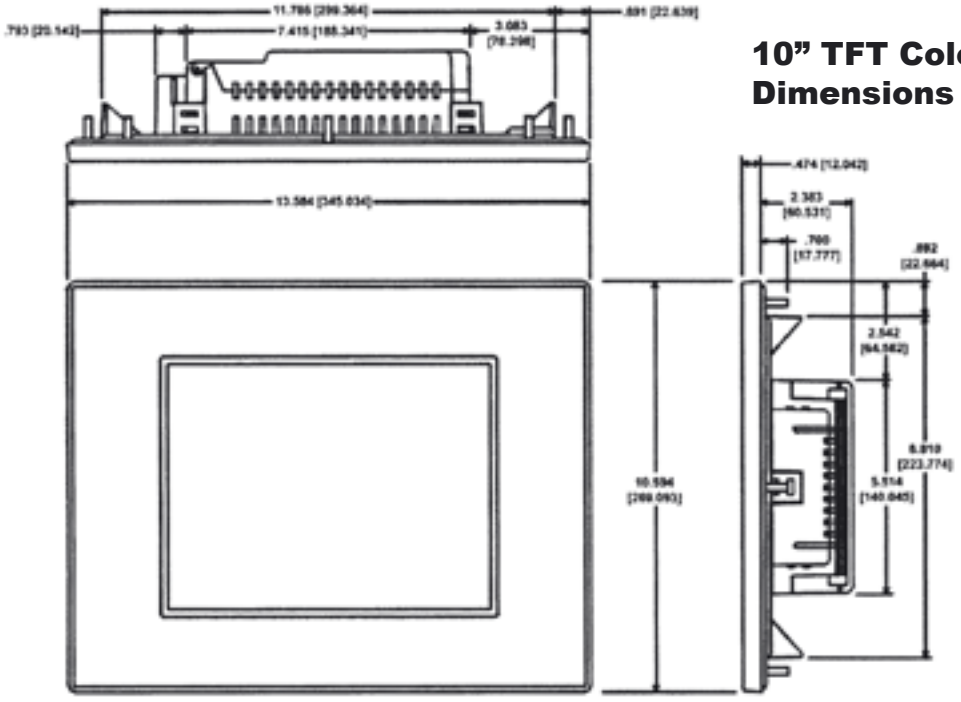
Features

- 10.4” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- 640x480 pixel resolution
- 512K RAM expandable to 1.5MB
- 512K, 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 200 nits brightness
- 40,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 1/4” O-ring gasket and eight mounting studs for NEMA 4, 4X (indoor)
- 2.38” (60.53mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-T10C-FS	All serial drivers and accepts optional Ethernet and network cards	€1,699
EZP-T10C-FSD	DeviceNet	€2,599
EZP-T10C-FSE	AB Ethernet I/P	€2,599
EZP-T10C-FSH	DH+, Remote I/O	€2,199
EZP-T10C-FSM	Modicon MB+	€2,199
EZP-T10C-FSP	Profibus	€2,599
EZP-T10C-FST	MODBUS TCP/IP	€2,199
EZP-T10C-FSC	CCLink	€2,199
EZP-T10C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€2,098

Panels NEMA 1, FDA Compliant



10” TFT Color Dimensions

Note

Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

EZPanel Enhanced 15” TFT Color Slim Bezel Panels

15” Color EZPanel Enhanced - Slim Bezel (15.0” TFT)

The 15” color EZPanel Enhanced slim bezel panels have a 15.0” diagonal touch screen, with a 640x480 pixel resolution and feature a TFT LCD (liquid crystal display). All models feature a low-profile slim bezel design that provides a small footprint on your enclosure.

Features

- 15.0” diagonal color TFT LCD
- Low-profile slim bezel design
- 128 colors
- NEMA 1, FDA compliant
- 640x480 pixel resolution
- 1MB RAM expandable to 1.5MB or 2MB
- 1MB or 2MB option flash card for memory backup
- Ethernet card optional (EZP-ETHERNET)
- MODBUS TCP/IP card optional (EZP-ETHERPLUS)
- 250 nits brightness
- 40,000 hour expected bulb half-life
- 192 touch cells (16x12)
- 1/4” gasket and four DIN mounting clips for NEMA 1
- 4.29” (108.9mm) installed depth
- Has all EZPanel Enhanced objects
- Has all 4,000 Library symbols
- Programmed with either EZPanel Enhanced software or EZTouch Programming software

See the different communication interface options available in the chart to the right

Model Number	Interface	Price
EZP-T15C-FS	All serial drivers and accepts optional Ethernet and network cards	€2,499
EZP-T15C-FSD	DeviceNet	€3,399
EZP-T15C-FSE	Ethernet/IP Allen Bradley	€3,399
EZP-T15C-FSH	DH+, Remote I/O	€2,999
EZP-T15C-FSM	Modicon MODBUS Plus	€2,999
EZP-T15C-FSP	Profibus	€2,999
EZP-T15C-FST	MODBUS TCP/IP	€3,299
EZP-T15C-FSC	CCLink	€2,999
EZP-T15C-FSU	Universal Ethernet drivers - DF1, I/P, Modbus TCP/IP, SRTP	€2,898

Note

Please note that the touchpanels that are rated NEMA 1 FDA Compliant can handle typical NEMA 4, 4x environment such as water seepage or hosedown. The only reason these panels do not have NEMA 4, 4x rating is because the FDA Compliant plastic matieral is not UL approved for NEMA 4 flammability.

15” TFT Color Dimensions